2020 CWWCA Annual Conference
January 8-10, 2020

MAKE YOUR RESERVATIONS NOW!

We are accepting hotel reservations for our upcoming conference. Through this website https://book.passkey.com/go/CWWCAJan2020 you can book, modify or cancel your hotel reservations and receive updated information about the event. Or call 1-800-228-9290 and mention CWWCA! We look forward to seeing you!

Standard Room Rate: $128.00 + tax.
The cutoff date to reserve that rate in the room block is Friday, December 20, 2019.

Denver Marriott Tech Center
4900 S. Syracuse Street
Denver, CO 80237
ADVERTISING INFORMATION

**DRILLSTEM ADVERTISING**
Advertising rates for the DRILLSTEM, a quarterly publication of CWWCA
Deadlines for content: February 1st, May 1st, August 1st, November 1st
(Published March, June, September, and December)
 Classified ads are $1.00 per 3.5-inch line.

<table>
<thead>
<tr>
<th>Number of Issues</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
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<tbody>
<tr>
<td>Full Page 7”x10”</td>
<td>$250</td>
<td>$450</td>
<td>$675</td>
<td>$850</td>
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<tr>
<td>Half Page 7”x5” or 3.5”x10”</td>
<td>$150</td>
<td>$285</td>
<td>$405</td>
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<tr>
<td>Quarter Page 3.5”x5” or 7”x2.5”</td>
<td>$90</td>
<td>$172</td>
<td>$243</td>
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<td>Business card 3.5”x2”</td>
<td>$50</td>
<td>$95</td>
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Help wanted ads will not be published.
Seeking employment ads will be published.

COPIES MUST BE CAMERA READY OR TRANSMITTED ELECTRONICALLY (.doc, .pdf, or .jpg format)
Please be sure to include all borders in the given dimensions (width x height) at 600dpi.
Avoid using colors in the ads since the DRILLSTEM is printed in black and white.
For full formatting requirements, please visit our website at CWWCA.org.

SEND PAYMENT TO:
CWWCA
3000 South Jamaica Ct, #145
Aurora, CO 80014
Phone: 720-244-8024
Fax: 720-244-8024

PLEASE EMAIL CONTENT AND ADS TO:
E-mail: execdir@cwwca.org
Credit card payments taken by phone.

**WEBSITE ADVERTISING**

**BANNER ADVERTISING**
There is a banner advertisement on every page of the website. The advertisements rotate sequentially, so every ad will have equal display time. If the demand for banner advertisements warrants it, additional banners will be incorporated into the site.

**One-Year Banner Advertisement: $100.00**
If the advertiser is a CWWCA member, this fee also includes a free upgrade of your member directory listing. Banner ads should be 285 pixels wide x 96 pixels high, .jpg format and in landscape orientation.

**MEMBER DIRECTORY UPGRADE**
CWWCA members may choose to upgrade their listing in the searchable member’s directory.
Upgrading allows your listing to be displayed at the top of searches and sorts. It allows your listing to link to your website. And upgrading allows you to display your logo or picture of your choice with your listing.

**One-Year of Directory Upgrade: $50.00**
Pictures for the listing should be submitted in .jpg format and should be 225 pixels wide, by 150 pixels high.

**CWWCA CONTACTS**

**Executive Director**
Colleen Schneider
3000 South Jamaica Ct, #145
Aurora, CO 80014
Phone: 720-244-8024
Fax: 720-244-8024
E-mail: execdir@cwwca.org

**CWWCA Lobbyist**
Richard G. Brown
Mobile: 303-601-9254
Phone: 303-695-6388
E-mail: dickscuba@gmail.com

**CWWCA CALENDAR OF EVENTS**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
<th>Location</th>
</tr>
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<tbody>
<tr>
<td>January 8, 2020</td>
<td>TWG (Technical Working Group) Meeting</td>
<td>Denver Marriott Tech Center</td>
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<tr>
<td>Denver, CO</td>
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<tr>
<td>January 9-10, 2020</td>
<td>CWWCA Annual Conference</td>
<td>Denver Marriott Tech Center</td>
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<tr>
<td>Denver, CO</td>
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<tr>
<td>January 10, 2020</td>
<td>CWWCA Board of Directors Meeting</td>
<td>Denver Marriott Tech Center</td>
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<td>Denver, CO</td>
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<tr>
<td>July 10-11, 2020</td>
<td>CWWCA Mid-Year Meeting</td>
<td>Beaver Run Resort &amp; Conference Center</td>
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<tr>
<td>Breckenridge, CO</td>
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WEBSITES

**Colorado Water Well Contractors Association**
www.cwwca.org

**American Ground Water Trust**
www.AGWT.org; privatewell.com

**Board of Examiners**
www.water.state.co.us/boe

**Colorado Ground Water Association**
www.cgwa.co

**National Ground Water Association**
www.ngwa.org

**World Wide Drilling Resource**
www.worldwidedrillingresource.com
Greetings,

Winter is here and for some it’s that favorite time of the year when you load up your warm clothes and favorite warming drink and head for the mountains to tromp thru the woods looking for that impressive rack that gives you bragging rights for the next eleven months. Did you remember to take your rifle this year? or did you leave it behind the door as you drove off waving to your wife who had that huge smile on her face or was it a hysterical laugh, knowing that Bambi was safe again this year.

November 8th was our CWWCA Program and Technical working group meeting and Board meeting where your program committee worked to finalize the annual CWWCA conference program for January 9-10th. We have a great program planned, not only providing an opportunity to gather Continuing Education “CEU’s” required for your license, but also an opportunity to meet with our exhibitors and suppliers who make this program possible.

Come and meet our new CWWCA Executive Director “Colleen Schneider” and the JMS team the association has teamed with to perform the duties that Karie Walker so flawlessly performed until her move home to be close to her family.

The audit of the well inspection program is complete, and actions are underway to meet the recommendations of the audit committee. These and other policies will be shared at our conference by the DWR, so you won’t want to miss these updates.

On behalf of the CWWCA Board of Directors, I would like to say thank you to all of our members for your support and a special thanks to those who give much of their time and energy to serve on committees representing the interest of our membership. And thank you for allowing me to serve this past year as your CWWCA President which I have enjoyed immensely.

I’m wishing you all a safe and happy holiday season and personally look forward to seeing you all at the annual conference January 9th and 10th.

Fred Rothauge
CWWCA President

Hydro Resources
13027 CR 18
Fort Lupton, Colorado 80621
Office (303)857-7540
Fax (303)857-3826
Cell (970)381-3788
e-Mail frothauge@hydroresources.com
Web (www.hydroresources.com)
PROGRAM
CWWCA Annual Conference
January 8-10, 2020
Denver Marriott Tech Center
4900 South Syracuse Street
Denver, CO 80237

Wednesday, January 8

PM
3:00 5:00 Early Registration & Early Exhibitor Set-Up
Rocky Mountain Event Center and Foyer
4:00 5:00 Technical Working Group
Lupine Room
5:00 7:00 Supplier Sponsored Social
Pint Brothers Restaurant

Thursday, January 9

AM
6:30 8:00 Registration & Continental Breakfast in Exhibit Area
Rocky Mountain Event Center
7:00 8:00 Past President’s Breakfast
Pint Brothers Restaurant
7:00 10:30 Exhibitor Set-Up
Rocky Mountain Event Center
7:45 8:00 CWWCA Board Members Only Working Meeting
Lupine Room

8:00 CONFERENCE BEGINS! Please be seated promptly for
Lightening Round-Exhibitor Introductions!
Evergreen A-B

8:30 9:20 “Drill Rig Safety and Maintenance” *1 hr
Todd Armstrong, GEFCO
Evergreen A-B

9:30 10:20 “Water Augmentation Plans and Changes of Use” *1 hr
Alyson Meyer Gould – Holsinger Law
Evergreen A-B

10:30 10:45 SUPPLIER SPONSORED COFFEE & PASTRY BREAK
IN EXHIBIT AREA
Rocky Mountain Event Center

CONCURRENT – PLEASE PICK ONE
10:45 11:30 Membership Meeting
Evergreen A-B

10:45 11:30 “Passing the State Licensing Test - Prep Session:
Ask the Green Jacket” * No CE Credit
Ray Newmyer, M.G.W.C., NWP Drilling & Consulting
Evergreen C

11:30 12:30 LUNCH – Installation of Officers & Awards in Exhibit Area
Rocky Mountain Event Center
**PROGRAM**

*CWWCA Annual Conference*

*January 8-10, 2020*

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### Thursday, January 9

**PM**

**CONCURRENT – PLEASE PICK ONE**

12:30 1:20  **“Visit Suppliers – Enter Raffles for Suppliers Giveaways”**  *1 hr*  
*Rocky Mountain Event Center*

12:30 1:20  **“Passing the State Licensing Test - Prep Session: Ask the Green Jacket”**  - No CE Credit  
*Ray Newmyer, M.G.W.C., NWP Drilling & Consulting*

1:30 2:20  **“DWR Update”**  *1 hr*  
*Kevin Donegan, DWR*

1:30 2:20  **Supplier Meeting**  
*Lupine Room*

2:20 2:40  **SUPPLIER SPONSORED COFFEE & COOKIE BREAK**  
*IN EXHIBIT AREA*

2:40 3:30  **“Covering Your Assets: Drilling Contracts and Agreement”**  *1 hr*  
*Joel Canfield, Canfield Drilling Company*

3:40 4:30  **“Contractor Jeopardy”**  *1 hr*  
*Thom Hanna, Johnson Screens*

4:30 5:30  **Happy Hour & Buck Lively Scholarship Silent Auction in Exhibit Area**  
*Rocky Mountain Event Center*

5:30 6:30  **Dinner Buffet in Exhibit Area**  
*Rocky Mountain Event Center*

6:30 7:30  **Buck Lively Scholarship Live Auction in Exhibit Area**  
*Rocky Mountain Event Center*

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### Friday, January 10

**AM**

7:00 8:00  **Continental Breakfast**  
*Rocky Mountain Event Center*

7:00 12:00  **Exhibitor Tear-Down**  
*Rocky Mountain Event Center*

8:00 9:00  **“Excavation Safety”**  *1 hr*  
*Joe Haralson, Safety Services*

9:10 10:00  **“Finding and Retaining Employees”**  *1 hr*  
*Gene Wagner, Quality Irrigation*

10:00 10:10  **SUPPLIER SPONSORED COFFEE & PASTRY BREAK**  
*Outside Evergreen A-B*

10:10 12:00  **“DOT: Load Securement & Utility Exemption”**  *2 hrs*  
*Ryan Byers, Front Range Compliance*

12:15 2:30  **CWWCA Board of Directors Meeting - Working Lunch**  
*Lupine Room*

*Note: * Indicates Approval for Continuing Education

10 CE Hours Offered * 8 CE Hours Required in CO * 8 CE Hours Approved in CO
PROVIDING INNOVATIVE SOLUTIONS FOR PROFESSIONAL WATER WELL CONTRACTORS SINCE 1890

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800-289-2777

CPS Distributors
2020 CWCCA ANNUAL CONFERENCE
JANUARY 8-10, 2020, DENVER, CO
REGISTRATION FORM

!!!!PLEASE NOTE NEW ADDRESS!!!!

Please Type or Print

NAME BADGES

Company Name
Registrait I__________________________
Registrait II__________________________
Registrait III__________________________
Registrait IV__________________________

PLEASE LIST ALL NAMES CLEARLY SO THAT THEY HAVE A NAME BADGE

Mailing Address_____________________________________________________
City, State, Zip_____________________________________________________
Phone____________________Fax________________________E-mail____________________

CONFFERENCE ATTENDEES ONLY

PLEASE NOTE THAT Full Registration Fee INCLUDES

1) Admission to all Courses
2) Wednesday Supplier Sponsored Social – Beer included/Food is not provided
3) Thursday Continental Breakfast, Lunch and Dinner Banquet and 1 Domestic Beer
4) Friday Continental Breakfast

By December 16 After December 16 Number Amount
*CWWCA Member Fee $196 $203 _____ $_____
*Employee Member/Spouse $182 $186 _____ $_____
* MUST HAVE INDIVIDUAL 2019 CWWCA MEMBER DUES PAID
Non-Member Fee $263 $273 _____ $_____
*Student Helper $50 $50 _____ $_____

* Email Colleen at execdir@cwwca.org for details on student helper

CONFERENCE REGISTRATION TOTAL _____ $_____

THESE ARE ADDITIONAL EXTRA TICKETS FOR GUEST MEALS

NAME BADGE FOR GUEST

For Thursday Breakfast Only $24.00 _____ $_____
For Thursday Lunch Only $25.00 _____ $_____
For Thursday Dinner Only $46.00 _____ $_____
For Friday Breakfast Only $24.00 _____ $_____
Children under 13 Lunch and or Dinner $18.00 _____ $_____

CREDIT CARD CONVENIENCE FEE $7.00

TOTAL PAID $_____

Method of Payment: Check Number
Credit Card: Visa ( ) Master Card ( ) Discover ( ) AMEX ( )
Name on Card
Credit Card #________________________________________Expiration Date______CCV____
Billing Address____________________________________Zip Code______
Signature

Please return your remittance and completed registration form to:
CWWCA, 3000 South Jamaica Court Suite 145, Aurora, CO 80014

Cancellation Policy: Full registration fees will be refunded prior to Dec. 21, 2019. A $50 fee will be charged for cancellations submitted between Dec. 21, 2019 & Dec. 31, 2019. No fees will be refunded after Jan. 1, 2020. All cancellation requests must be submitted in writing to the CWCCA office.

If you have a disability and may require special accommodations, please notify us in writing at least (2) weeks prior to the conference.
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CONSTANT PRESSURE
PUMP CONTROL
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- Stops Pump from Cycling
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- Maintenance Free
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WWW.FLOMATIC.COM
CWWCA ANNUAL CONFERENCE
SUPPLIER/MANUFACTURER EXHIBITION

JANUARY 8-9, 2020

DENVER MARRIOTT TECH CENTER
4900 SOUTH SYRACUSE STREET
DENVER, CO 80237

SPONSORSHIP OPPORTUNITIES FOR 2020
You will be recognized with signage, a slide show, and in the attendee program.

We need your logo for the slide show. Please email it to execdir@cwwca.org if you have not already done so for the 2019 conferences, or if it has changed.

Supplier Sponsored Social will take place in Pint Brothers Restaurant. All conference activities, except for classes, are in the exhibit area, to increase face time with attendees!

• Sponsor Keg of Coors Light Beer for the Wednesday Night Social
  (Value = $640.00) $________
  **This year it will be in the Pint Brothers Restaurant. Each member/supplier is on their own for all food.

• Sponsor Thursday Breakfast $_______

• Sponsor Thursday Lunch $_______

• Sponsor 2 Kegs of Coors Light Beer for the Thursday Night Open Bar, Buck Lively Scholarship Auction and Dinner Buffet
  (Value = $640.00 Each, Total Value = $1,280.00) $_______

• Sponsor Thursday Dinner Buffet $_______

• Sponsor the Auctioneer $_______

• Sponsor Friday Breakfast $_______

*Lightning Round-Exhibitor Introductions Thursday Morning!
*One Hour with Suppliers & Supplier Giveaways Thursday Afternoon!
*Complimentary Parking – Get your voucher at the registration desk!
*Complimentary Conference WIFI – Get the code at the registration desk!

Booth Spaces
Booth spaces will be set up around the perimeter of the exhibit hall. They are 8’ wide with a 6’ table and 2 chairs. In order to give all of our exhibitors equal exposure to attendees, booth perimeters are not piped and draped and the floor is not marked. Please do not move your table, even slightly, to either side, so the floor plan is not compromised.

Thank you so much for your consideration of your fellow exhibitors!
EXHIBITOR REGISTRATION FORM, PAGE 2 OF 3  
CWWCA ANNUAL CONFERENCE, JANUARY 8-9, 2020  
EXHIBITS OPEN THURSDAY, JANUARY 9, 10:30 AM – 7:30 PM

Please Type or Print  
This information will be listed in the program

**COMPANY NAME**______________________________________

**Address**________________________________**City**__**State**  **Zip**____

**E-Mail**________________________________**Phone**________**Fax**____

**NAME OF COMPANY CONTACT PERSON**______________________________

**NAME BADGE FOR EXHIBITOR ATTENDEE**__________________________

**EXHIBIT BOOTH FEES:**

| Early Bird CWWCA Member Rate- Rig (2) spots | ____ $750.00 |
| Early Bird CWWCA Member Rate - by December 11, 2019 | ____ $400.00 |
| After December 11, 2019 - CWWCA Member Rate | ____ $435.00 |
| Early Bird Non-Member Rate - by December 11, 2019 | ____ $450.00 |
| After December 11, 2019 - Non-Member Rate | ____ $485.00 |

Please select the booth number(s) you would like to occupy for the conference from the floor plan included or email it to execdir@cwwca.org. Booths are on a first-come, first serve basis based on receipt of this form via fax or email. We will do our very best to accommodate your choices.

**Indicate Booth # (1st Choice)_____ (2nd Choice)______ (3rd Choice)______**

**Electricity Charge: (mark the blank if you need electricity for your booth) _____ $65.00**

**Included in the Booth Fee: 1 Beer for Wednesday, 1 Thursday Breakfast, 1 Thursday Lunch, 1 Thursday Dinner with 1 Beer, 1 Friday Breakfast**

**No drink tickets this year, instead there will be sponsored keg beer and a cash bar on 1/8/20 and 1/9/20. Thank you for sponsoring the kegs!**

**EXTRA MEALS THAT ARE NOT INCLUDED IN BOOTH FEE**

| (NAME)__________________________ Thursday Breakfast | ____ $24.00 |
| (NAME)__________________________ Thursday Breakfast | ____ $24.00 |
| (NAME)__________________________ Thursday Lunch | ____ $44.00 |
| (NAME)__________________________ Thursday Lunch | ____ $44.00 |
| (NAME)__________________________ Thursday Dinner & 1 Beer | ____ $48.00 |
| (NAME)__________________________ Thursday Dinner & 1 Beer | ____ $48.00 |
| (NAME)__________________________ Friday Breakfast | ____ $24.00 |
| (NAME)__________________________ Friday Breakfast | ____ $24.00 |

**CREDIT CARD CONVENIENCE FEE**

**PAYMENT**

**TOTAL AMOUNT**  ____ $_______

Check #_______

Credit Card: ( ) Visa ( ) MasterCard ( ) Discover ( ) AMEX

**NAME ON CARD**

Billing Address__________________________________Billing Zip________

Credit Card #________________________________Exp Date____CCV____

Phone______________________________

PLEASE SEND FORMS AND PAYMENTS TO CWWCA  
CWWCA 3000 South Jamaica Ct, #145, Aurora, CO 80014  
EMAIL: execdir@cwwca.org PHONE: 720-244-8024

the DRILLSTEM  WINTER 2019
EXHIBITOR REGISTRATION FORM, PAGE 3 of 3
CWWCA ANNUAL CONFERENCE, JANUARY 8-9, 2020

EXHIBITS OPEN THURSDAY, JANUARY 9TH, 10:30 AM – 7:30 PM

YOUR SET-UP PLAN

EXHIBITOR COMPANY NAME

I will set-up Wednesday, January 8th between 3:00-5:00 pm
• YES ( ) I will be set-up by 5:00 pm on Wednesday
• YES ( ) I wish to participate in the 5:00-7:00 pm Supplier Sponsored Social
• YES, I would like to contribute $______ for the Supplier Sponsored Social

I will set-up Thursday, January 9th between 7:00-10:30 am
• YES ( ) I will be set-up by 10:30 am on Thursday
• Lightening Round-Exhibitor Introductions –
• 8:00-8:30 am – Evergreen A & B
• Lunch - 11:30am-12:30 pm - Exhibit Area
• Visit Suppliers-Enter Raffles for Supplier Giveaways –
• 12:30-1:20 pm – Exhibit Area
• Supplier Meeting – 1:30-2:20 pm – Lupine Room
• Happy Hour and Silent Auction - 4:30-5:30 pm – Exhibit Area
• Dinner Buffet - 5:30-6:30 pm – Exhibit Area
• Buck Lively Scholarship Live Auction - 6:30-7:30 pm - Exhibit Area

PLEASE NO EXHIBITOR TEAR DOWN UNTIL AFTER THE AUCTION
• Teardown - Thursday, January 9th - AFTER 7:30 pm
• or Friday, January 10th - 7:00 am – Noon

The CWWCA Buck Lively Scholarship Fund is recognized as tax-exempt under IRS Code section 501(c)(3) and voluntary donations are tax deductible as a charitable contribution to the full extent permitted by law.

BRINGING A SCHOLARSHIP AUCTION ITEM? YES ( ) NO ( )
In an effort to publicize the auction in advance, please describe your item and assign a value:

HOTEL RESERVATIONS: $128.00 + Tax Per Night, Standard Room
DEADLINE TO RESERVE A ROOM AT THE GROUP RATE: DECEMBER 20, 2019
Mention Colorado Water Well Contractors Association
Denver Marriott Tech Center 303-779-1100

Cancellation Policy: Full booth fees will be refunded prior to December 21, 2019.
A $50.00 cancellation fee will be charged for all cancellations between
No fees will be refunded after January 2, 2020.

Thank you as always, for your support, from our CWWCA Supplier Directors!

Tom Harder, Western Hydro
877-594-7259, tharder@westernhydro.com
Your **FULL LINE DISTRIBUTOR** of Well Water Products

**Cruise**
FEBRUARY 8th - 15th
St. Kitts, St. Thomas, and The Bahamas
DELUXE BEVERAGE PACKAGE INCLUDED!
Round-trip Airfare for 2 to the Cruise Port in Miami is Also Included

**MAUI**
JANUARY 5th - 12th
7 Days & Nights at the Beautiful Hyatt Resort in Lahaina, Maui
Includes Round-trip Airfare & Hotel for Two

FREE SHIPPING ON IN-STOCK ITEMS!

---

WANT TO FIND OUT HOW TO JOIN US IN LAS VEGAS, MAUI, AND CRUISING THE CARIBBEAN THIS YEAR?

CALL (866) 478-6336
FOR MORE INFORMATION ON THE BEST TRIPS OF THE YEAR!
Legislative Moves from Interim to the 2020 Session

Since our last legislative update for the Drillstem, we have been focused on the work of the Water Resources Review Committee and the Board of Examiners. For the most part, the WRRC did not undertake consideration of issues of interest to the CWWCA — until the very end of the summer.

When the committee turned its attention to drafting legislation for the 2020 session, Rep. Lori Saine (Weld County) asked for a bill to be drafted that would increase the number of inspectors employed by the Division of Water Resources. Rep. Saine sits on the Legislative Audit Committee and heard the audit report findings and recommendations. The bill that Rep. Saine requested was based on the audit.

The committee voted to approve the drafting request, and a bill was prepared for the consideration of the committee. Rep. Saine took a unique approach to the funding of the additional inspectors. She proposed that initial funding come from the revenues to be generated by Proposition DD in the event that the voters approved that measure. The bill was drafted in accordance with her request.

However, when the committee considered the draft bills, it amended Rep. Saine’s bill to strike the funding from DD revenues. DD itself was drafted to steer a percentage of the sports betting tax revenues to the purposes of the State Water Plan and there was concern that siphoning off any of that revenue would set a precedent that would become problematic down the road. With the DD funding stripped out of the bill, it was approved by the committee.

Joining Rep. Saine in sponsoring the bill were Rep. Brianna Titone (D-Arvada), Sen. Jerry Sonnenberg (RNE Colorado) and Sen. Don Coram (R-Montrose).

Approval of the bill by the WRRC was a procedural vote and it does not give the bill any particular status going forward. The approval was to send the bill for consideration by the Legislative Council — the bipartisan joint leadership committee. This process is largely one of logistics.

Each legislator is granted 5 bills for which he or she can be the prime sponsor. If a legislator wishes to sponsor say 6 bills, that legislator must get the additional approved by leadership as an exemption to the 5-bill rule. An exception to that rule is for bills that are referred by interim committees such as the WRRC. The Legislative Council met on November 15 and approved the bill to be introduced in January 2020. The sponsorship will be the same with Rep. Saine as the prime sponsor. It will be
introduced into the House. It will most likely be assigned to the House Rural Affairs and Agriculture Committee although committee assignment is up to the Speaker of the House. It is possible that it might receive and additional committee assignment to House Appropriations since personnel matters frequently involve budgetary implications.

The bill is simple and straightforward. It requires the State Engineer to employ a minimum of 4 inspectors for the well inspection program. It further would require that at least 1 inspector be dedicated to the needs of Water Division 1 and at least 1 inspector be dedicated to the needs of Water Division 2. The bill continues reliance on water well inspection fees to pay the cost of the inspection program. However, the bill does not propose any increase in the inspection fee. The audit found some irregularities in the way the cash in the inspection fund had been handled over the past few years and those irregularities are being addressed by the DWR.

The second thing that the bill addresses is a requirement for the Board of Examiners to adopt rules that define what constitute “high-risk” wells that the State Engineer would use to prioritize for inspection. This issue was brought forth in the audit and received considerable explanation and discussion by the State Engineer to the members of the Legislative Audit Committee. The BOE has draft regulations and criteria before it and is expected to finalize them before the end of the calendar year.

The CWWCA has expressed some cautions about inappropriately focusing on what are defined as being high-risk wells. If the criteria that are selected are too tight and too restrictive, the result could be concentrating too many resources into too few wells and geographic areas of the state while leaving areas of the state without any inspections – the precise failure of the program that we are now experiencing. The fact that the bill vests that responsibility with the BOE is a positive because that gives the BOE the opportunity to revise the criteria as necessary.

The 2020 session of the legislature convenes on January 8, 2020. Since the bill has been drafted and no further revisions will be made to it, we expect to see it formally introduced within the first few days of the session. It is also possible that it will receive a hearing within the first couple of weeks of the session. Much depends on whether the bill is also assigned to the Appropriations Committee. As a general rule, bills that are assigned to Appropriations sit quietly until the budget is finalized and the legislature knows how much money it has. The budget won’t be finalized until the latter part of March.

If, however, the analysis by legislative staff is that no appropriations will be affected, the bill might move forward through the process fairly quickly.

The 2020 legislative session convenes on January 8 – the same date as the first day of our annual meeting. We will provide a current update on the bill – and other issues that might arise in the first days of the session – for the membership at our annual convention.
REPORT HIGHLIGHTS
WATER WELL INSPECTION PROGRAM PERFORMANCE AUDIT, MAY 2019

CONCERN
The audit identified concerns about whether the Well Inspection Program (Program) is fundamentally designed and operating to accomplish its purpose of protecting Colorado's water resources and the public health and safety. The Program does not effectively use a risk-based approach to target the use of its inspectors, does not focus well inspectors' time on observing key phases of well construction, does not routinely use reports on completed wells to help verify compliance with construction requirements, and does not ensure that monies in its cash fund are used only for Program operations.

- The Program does not have a strategy for getting the maximum monitoring benefits from its three inspectors and $300,000 in annual funding. The Program inspected only 15 of the 206 wells (7 percent) it considers to have been high-risk in Fiscal Year 2018, but inspected 295 low-risk wells. We estimate the Program spent about $320,000 inspecting low-risk wells.
- Most well inspections conducted in Fiscal Year 2018 did not inspect what the Program considers to be a key phase of well construction. Of the 310 wells inspected that year, 209 (67 percent) were never inspected for any key phase, despite some wells being inspected multiple times. One well was inspected 23 times that year without inspectors observing any key phase of well construction. Contractors or well owners sometimes obstruct inspections, but inspectors do not notify the Board of Examiners if they are denied access to a well.
- The Division does not monitor or enforce the submission of “work reports” contractors are required to submit when well construction is complete and does not use submitted reports to help monitor adherence to construction requirements. For example, the Division does not verify that the depth of the constructed well as noted on the work report agrees with the permitted depth.
- The Division incorrectly paid about $75,000 from the Program’s cash fund for salary expenses of staff not conducting Program work in Fiscal Year 2018. Due to the incorrect charging of salaries, there were insufficient monies in the cash fund to cover all Program expenses, so the Division used General funds to pay for 76 percent of the Program’s $40,000 in vehicle costs that year.

BACKGROUND
- Water wells provide Colorado residents access to water directly from underground aquifers, and are common where access to water through a municipal utility is not available.
- Constructing a new well requires a permit from the Division of Water Resources (Division), and construction contractors must be licensed through the Board of Water Well Examiners (Board). In Fiscal Year 2018, about 4,000 new wells were constructed.
- In 2003, the General Assembly created the Program within the Division to monitor well construction [Section 37-91-113, C.R.S.]. In Fiscal Year 2018, the Program’s three inspectors conducted inspections of 310 wells constructed that year.
- The Program is funded by the Well Inspection Cash Fund, which consists of contractor licensing fees, a portion of well permit fees, and any fines issued by the Board. Program expenses are about $300,000 per year.

KEY RECOMMENDATIONS
The Division agreed with our recommendations to:
- Require advance notice of key construction phases for all wells.
- Prioritize inspection of high-risk wells and of key phases of construction.
- Use work reports to monitor compliance with construction requirements.
- Improve financial controls over the Well Inspection Cash Fund.
November 8, 2019

TWG Meeting Recap
Bishop-Brogden Associates
333 W Hampden Avenue
Englewood, CO 80110

Next TWG Meeting:

CWWCA Annual Conference
Marriott Tech Center, Lupin Room
4900 S Syracuse St, Denver, CO 80237
January 8, 2020, 4:00 - 5:00 PM

Attendees:
Bruce Hier, Tom Harder, Andy Flor, Mike Temple, Joe Meigs, John Shuler, Chris Sanchez, Fred Rothauge, Travis Day, Matt Sares, Dan Niemela, Bryan Beckner, John O’Brien, Gene Wagner, Joel Canfield

Moderator:
John Shuler

Moderator for January 2020 Meeting:
Bruce Heir

DWR Update

DWR compiled a list of well permitting fees for various western and mid-western states. This exercise was intended to inform discussion of the possibility of raising well permit fees to increase funding for the Well Inspection Program. Currently, $40 of each well permit fee goes toward the Well Inspection Program. Review of other states’ permit fees showed that Colorado well permitting fees are well below the median. In contrast to Colorado, some states collect a post-construction well inspection fee while others charge fees on a sliding scale based upon the amount of water diverted. Some of the permit fees in other states may reflect administrative costs that are not included in those for Colorado.

Well permitting activity during the third quarter of 2019 was lower than the same period in 2018, as shown in the summaries below. Those summaries show, relative to the third quarter of 2018, an 8% decrease in permit applications, 9% decrease in permits issued and 11% decrease in exempt permits issued.

Well permitting activity in 2019 through three quarters was lower than the same period in 2018, as shown in the summaries below. Those summaries show, relative to 2018, a 15% decrease in permit applications, 12% decrease in permits issued and 11% decrease in exempt permits issued.
Well Permit Activity Log

<table>
<thead>
<tr>
<th>Action Name</th>
<th>Year</th>
<th>1/1 - 3/31</th>
<th>4/1-6/30</th>
<th>7/1 - 9/30</th>
<th>10/1 - 12/31</th>
<th>Year</th>
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</thead>
<tbody>
<tr>
<td>Total Application Received</td>
<td>2019</td>
<td>1368</td>
<td>1605</td>
<td>1724</td>
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<td>1073</td>
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<tr>
<td>New Permits Issued (Non Exempt)</td>
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<td>372</td>
<td>351</td>
<td>393</td>
<td>1116</td>
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<tr>
<td>Replacement Permits Issued (Exempt)</td>
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<td>84</td>
<td>122</td>
<td>146</td>
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<tr>
<td>Replacement Permits Issued (Non Exempt)</td>
<td>2019</td>
<td>28</td>
<td>50</td>
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</tr>
<tr>
<td>Geothermal Use Applications Received</td>
<td>2019</td>
<td>35</td>
<td>3</td>
<td>28</td>
<td>96</td>
<td></td>
</tr>
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<td>Geothermal Use Permits Issued</td>
<td>2019</td>
<td>34</td>
<td>5</td>
<td>29</td>
<td>68</td>
<td></td>
</tr>
<tr>
<td>Monitoring Hole Notices Issued</td>
<td>2019</td>
<td>202</td>
<td>242</td>
<td>245</td>
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<tr>
<td>Permit Extended</td>
<td>2019</td>
<td>149</td>
<td>182</td>
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</tr>
<tr>
<td>Permit Canceled</td>
<td>2019</td>
<td>85</td>
<td>144</td>
<td>122</td>
<td>351</td>
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<tr>
<td>Well Constructed</td>
<td>2019</td>
<td>611</td>
<td>515</td>
<td>750</td>
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<td>Well Constructed Receivd</td>
<td>2019</td>
<td>959</td>
<td>841</td>
<td>1198</td>
<td>2996</td>
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</tr>
<tr>
<td>Pump Installed</td>
<td>2019</td>
<td>667</td>
<td>751</td>
<td>974</td>
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<tr>
<td>Pump Installed Receivd</td>
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<td>811</td>
<td>990</td>
<td>1223</td>
<td>3024</td>
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<tr>
<td>Well Plugged and Abandoned</td>
<td>2019</td>
<td>149</td>
<td>144</td>
<td>239</td>
<td>532</td>
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<tr>
<td>Well Plugged and Abandoned Receivd</td>
<td>2019</td>
<td>268</td>
<td>183</td>
<td>388</td>
<td>839</td>
<td></td>
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Well Permit Activity Log

<table>
<thead>
<tr>
<th>Action Name</th>
<th>Year</th>
<th>1/1 - 3/31</th>
<th>4/1-6/30</th>
<th>7/1 - 9/30</th>
<th>10/1 - 12/31</th>
<th>Year</th>
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</thead>
<tbody>
<tr>
<td>Total Application Received</td>
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<td>2144</td>
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<td>Replacement Permits Issued (Exempt)</td>
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<td>509</td>
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<td>29</td>
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<tr>
<td>Geothermal Use Applications Received</td>
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<tr>
<td>Geothermal Use Permits Issued</td>
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<td>42</td>
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<td>113</td>
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<tr>
<td>Monitoring Hole Notices Issued</td>
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<td>210</td>
<td>260</td>
<td>300</td>
<td>258</td>
<td>1028</td>
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<td>Permit Extended</td>
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<td>166</td>
<td>149</td>
<td>174</td>
<td>122</td>
<td>611</td>
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<tr>
<td>Permit Canceled</td>
<td>2018</td>
<td>99</td>
<td>177</td>
<td>136</td>
<td>82</td>
<td>494</td>
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<tr>
<td>Well Constructed</td>
<td>2018</td>
<td>293</td>
<td>609</td>
<td>722</td>
<td>509</td>
<td>2133</td>
</tr>
<tr>
<td>Well Constructed Receivd</td>
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<td>742</td>
<td>1062</td>
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<tr>
<td>Pump Installed</td>
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<td>340</td>
<td>638</td>
<td>791</td>
<td>553</td>
<td>2322</td>
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<tr>
<td>Pump Installed Receivd</td>
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<td>459</td>
<td>866</td>
<td>1071</td>
<td>984</td>
<td>3390</td>
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<td>Well Plugged and Abandoned</td>
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<td>123</td>
<td>210</td>
<td>177</td>
<td>139</td>
<td>649</td>
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<td>2018</td>
<td>225</td>
<td>325</td>
<td>296</td>
<td>274</td>
<td>1120</td>
</tr>
</tbody>
</table>

Well Inspection Program

The State Engineer accepts all recommendations in the Well Inspection Program audit report and committed to addressing those recommendations. The State Engineer’s Office is currently working on policies with the BOE that meet the requirements of the State Auditor. Some of these policies will likely affect water well contractors and input from contractors will be helpful in this process. Implementation will be a collaborative effort between the SEO and BOE. Policies discussed at the November 4, 2019 BOE meeting are summarized below.

(Continued on page 18)
Policy 2019-2 is a revision of a previous policy which provides internal guidance for the DWR for handling of violations of stipulated settlements. Minimum fines have gone up on some violations. 2019-2 was adopted at the November BOE meeting.

Policy 2019-3 addresses deliberate obstruction of site access for inspectors. This policy was drafted in response to recommendations made in the audit report. Generally, inspectors will document a pattern of obstruction and that information is transmitted to the BOE. 2019-3 was approved at the November BOE meeting.

Policy 2020-1 proposes a numerical ranking system to assess the risk of groundwater contamination by new well construction as recommended in the audit report. The ranking system considers the likelihood and consequences of contamination. Members of the TWG expressed concern that the proposed ranking system places excessive emphasis on Laramie Fox-Hills and San Luis Valley wells that would not remedy poor geographical distribution of well inspections. Methods for implementation of the ranking system is still under discussion, but inspectors are expected to have a degree of autonomy to make inspection decisions for themselves. 2020-1 has not yet been approved and the DWR encourages input from contractors. A draft version of 2020-1 will be posted on the CWWCA website.

Policy 2020-2 addresses a need for drillers and pump installers to provide advance notification to the DWR prior to starting well construction, initial pump installation, or installation of a cistern for all new constructed wells as recommended in the audit. The policy is intended to provide inspectors the opportunity to coordinate with the driller or pump installer on estimated times to be on-site during key phases of well construction. Several members of the TWG expressed concern about the burden a policy of 100% advance notification would place on drillers and pump installers. A member of the TWG suggested that advance notification could be for a two-week period, during which an inspector could request access to the well site. 2020-2 has not yet been approved and the DWR encourages input from contractors. A draft version of 2020-2 will be posted on the CWWCA website.

For Policies 2020-1 and 2020-2, the DWR will incorporate changes from the November BOE meeting and a special phone meeting that is scheduled to take place in the second week of December. The DWR hopes to have a final document by February 2020 and implement the new policies shortly thereafter.

Interviews for the vacant well inspector position are in progress.

DWR Forms

The DWR will implement a ‘Turbo-tax style’ online system along with a new website for well permit applications and for well construction, abandonment and pump installation reporting. All forms will be mobile compatible. Lithologic reports will be as planned, utilizing a drop-down menu. All wells will require an aquifer name and that list is being
constructed with consideration of aquifers with differing local and regional names. These forms should be available early to mid-2020.

Ground Water Discharge Permitting

DWR is developing “low risk” guidelines for well development and well testing discharges to ground water. DWR is seeking input on contaminated aquifers, which are being mapped and reviewed by CDPHE. Barring wholesale changes by CDPHE, this new well-discharge policy should be in front of the BOE for approval within the first half of 2020.

Future Topics
DWR Update
Revised BOE Policies
DWR Forms

Respectfully submitted by John Shuler

DON'T FORGET! Our Buck Lively Scholarship Program is now a 501(c)(3). So, cash donations at the Annual Conference Buck Lively Scholarship Auction, are tax deductible!
February 3, 2020

BOE Policy 2020-1 (DRAFT)

IMPLEMENTATION OF WELL INSPECTION AUDIT RECOMMENDATIONS:
PRIORITYING INSPECTIONS BASED ON RISK TO GROUNDWATER CONTAMINATION, CONSUMER PROTECTION, AND DURING KEY PHASES OF CONSTRUCTION

Background
The well inspection program was instituted for the protection of the groundwater resources of the State of Colorado and public health through enforcement of minimum well construction and pump installation standards. The program was created under Senate Bill 03-045.

This policy derives from the recommendations of an audit by the Office of the State Auditor, found in the report, Water Well Inspection Program, Performance Audit, May 2019. This policy addresses Recommendations 1A, 1B, 1C, and 2C of that report.

Objective
To create a risk-based Well Inspection Program, it is necessary to identify the various well construction factors that increase the potential for groundwater contamination or mixing of different aquifer groundwater sources and to prioritize those factors for the purpose of well inspections. Board of Examiners Staff (Board Staff) will develop a matrix providing guidance to the Well Inspection Program on which types of well construction and pump installations have the highest potential risk to Colorado’s groundwater and to consumers if not constructed properly. Key Phases of well construction are also identified and listed to help inspectors prioritize when they visit higher risk wells.

The risk matrix considers the likelihood (L) of contamination and the consequences (C) of contamination. Much of the data needed to determine the likelihood and consequences will be provided on the well permit application. However, some information will not be available until the advanced notification is given. Therefore, the actionable risk can change between the time of well permit application and the well contractor’s advance notice of well construction to DWR.

An Initial Risk Value (IRV) will be determined by adding the individual risk factors provided on the permit application. The Overall Risk Value (ORV) will be determined by multiplying the IRV by the individual risk factors provided in the advanced notification.
Individual Risk Factors: Low = 1, Medium = 5, High = 9

**Individual Risk Factors based on Information Provided on the Application**

<table>
<thead>
<tr>
<th>Geography (L):</th>
<th>Designated Basin = 1</th>
<th>Well Use (C):</th>
<th>Industrial = 1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Rest of State = 1</td>
<td>Dewatering = 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Denver Basin = 5</td>
<td>Monitoring = 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Division 3 = 9</td>
<td>Irrigation = 5</td>
<td></td>
</tr>
<tr>
<td>Water Rights (C):</td>
<td>Exempt = 1</td>
<td>Commercial = 5</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nonexempt = 5</td>
<td>Residential/Domestic = 5</td>
<td></td>
</tr>
<tr>
<td>Proposed Driller (L):</td>
<td>Licensed Contractor = 1</td>
<td>Aquifer (L&amp;C):</td>
<td>Alluvial = 1</td>
</tr>
<tr>
<td></td>
<td>Authorized Individual = 1</td>
<td></td>
<td>Fractured granite = 1</td>
</tr>
<tr>
<td></td>
<td>Self/Private Driller = 9</td>
<td></td>
<td>Uppermost bedrock = 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Below another aquifer(s) = 5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Dakota aquifer = 5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Unconfined San Luis Valley = 5</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Confined San Luis Valley = 9</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Laramie-Fox Hills = 9</td>
<td></td>
</tr>
</tbody>
</table>

**Individual Risk Factors based on Information Provided during Advanced Notification**

<table>
<thead>
<tr>
<th>Aquifer Type (L&amp;C):</th>
<th>Type III = 1</th>
<th>Date Since</th>
<th>&lt; 6 months = 1</th>
</tr>
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<tr>
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<td>Type II = 1</td>
<td>Contractor Last</td>
<td>6-12 months = 5</td>
</tr>
<tr>
<td></td>
<td>Type I (single) = 5</td>
<td>Inspected (L):</td>
<td>&gt; 12 months = 9</td>
</tr>
<tr>
<td></td>
<td>Type I (multiple) = 9</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Laramie Fox Hills = 9</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Variance (L):</td>
<td>No Variance = 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Variance = 9</td>
</tr>
</tbody>
</table>

Daily review of the information available to the inspector will be completed before performing field inspections. The goal is to limit the potential for poor well construction especially in those wells that have the highest likelihood to cause groundwater degradation problems and those where the consequences of degradation are greater.

**Key Phases of Well Construction**

Well inspections during key phases ensure the well meets minimum construction, installation, or abandonment standards and therefore protects groundwater resources and public health and safety. Table 1 outlines the key phases for different well types. Well Inspectors must prioritize the inspection of key phases by communicating and coordinating with well drillers and pump installers on proposed construction schedules.
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COLORADO SPRINGS
719-572-5251
Table 1. Key Phases of Well Construction for Well Inspection

<table>
<thead>
<tr>
<th>Key Phase</th>
<th>Aquifer Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Well Location</td>
<td>All Types</td>
</tr>
<tr>
<td>Surface Casing/Minimum Grout Seal</td>
<td>II, III</td>
</tr>
<tr>
<td>Total Depth</td>
<td>All Types</td>
</tr>
<tr>
<td>Annular Space</td>
<td>All Types</td>
</tr>
<tr>
<td>Installation of Perforated Casing</td>
<td>I (single and multiple), KLF</td>
</tr>
<tr>
<td>Grouting from Production Zone to Required Depth</td>
<td>I (single and multiple), KLF</td>
</tr>
<tr>
<td>Initial Pump/Cistern Installation</td>
<td>All Types</td>
</tr>
<tr>
<td>Disinfection</td>
<td>All Types</td>
</tr>
<tr>
<td>Abandonment</td>
<td>I (single and multiple), KLF</td>
</tr>
</tbody>
</table>

Policy

Board Staff will develop, update, and maintain a business process that will assign an Overall Risk Value (ORV) of proposed wells and prioritize inspections accordingly. The Well Inspectors will coordinate with the proposed driller on anticipated dates of key phases of well construction and will prioritize their visits to higher risk wells during those key phases of well inspection, pump installation, or well abandonment. Well Inspectors will record if their inspection occurred during a key phase, and which phases were observed. Well Inspectors maintain the ability to prioritize the inspection of any well based on their own professional knowledge and discretion.

All other constructed wells and pump installations are considered to be of lower risk and will be inspected when inspectors are available or on request by owners or contractors. After review of all information available on a daily basis the Well Inspector has discretion as to which sites are prioritized for the day.

Approval

This policy may only be modified or revoked in writing by the Board of Examiners of Water Well Construction and Pump Installation Contractors.

Approved __________________________

Keith Branstetter, Chairperson Board of Examiners of Water Well Construction and Pump Installation Contractors
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2Mco.com

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+ Water Treatment
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February 3, 2020

Policy 2020-2 (DRAFT)

IMPLEMENTATION OF WELL INSPECTION AUDIT RECOMMENDATIONS: ADVANCE NOTICE OF WELL CONSTRUCTION AND KEY PHASES OF WELL CONSTRUCTION AND PUMP INSTALLATION

Background

The well inspection program was instituted for the protection of public health and groundwater resources of the State of Colorado through enforcement of minimum well construction and pump installation standards. The program was created under Senate Bill 03-045.

This policy derives from the recommendations of an audit by the Office of the State Auditor, found in the report, Water Well Inspection Program, Performance Audit, May 2019. This policy addresses Recommendations 1D, 2A, and 2B of that report.

Objective

This policy addresses a need for licensed or private drillers and pump installers to provide advance notification to the Board of Examiners (BOE)/Division of Water Resources (DWR) prior to starting well construction, initial pump installation, or installation of a cistern connected to a water well supply system for all new constructed wells.

This advanced notification will include:

- Identification of the aquifer type in which the well will be completed
- The date well construction/pump installation will commence
- At minimum, an office contact and any on-site contact name(s) and phone number(s)
- The estimated time/date range of the full well construction/pump installation project

The policy will allow well inspectors to know when well construction begins and the opportunity to coordinate with the driller or pump installer on estimated dates and times to be on-site during key phases of well construction to ensure proper construction techniques are followed per Colorado statute and the BOE Construction Rules.

If the Well Inspector and Driller or Pump Installer have communicated about a date or time of a key phase for a high risk well, the Inspector will document the anticipated date and/or time in the inspection spreadsheet. The Driller or Pump Installer must provide adequate prior notice to the Well Inspector if the date or time of the key phase changes. The Well Inspector and Driller
PUMPING SYSTEMS FOR IRRIGATION & RESIDENTIAL APPLICATIONS

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or Pump Installer will coordinate the adequate timing of changes to the schedule based on the location of the well and Well Inspector.

The ultimate objective of the policy is to safeguard public health and protect the groundwater resources of Colorado.

**Policy**

Pursuant to Construction Rule 6.2.2.1 (2 CCR 402-2), licensed or private drillers and pump installers must comply with the conditions of approval of the well permit including providing advanced notification (at least one calendar day) to DWR prior to each of the following events: well construction, the initial installation of the pump, and initial installation of a cistern connected to the water well supply system.

The advance notification is expanded to include:

- Identification of the aquifer type in which the well will be completed;
- The date well construction/pump installation will commence;
- Name(s) and phone number(s) of an office contact and at least one on-site contact;
- The estimated time/date range of the full well construction/pump installation project.

If the aquifer type (I, II, III, or KLF) has not been identified on the permit, the driller must indicate the anticipated aquifer type in the notification. If the anticipated aquifer type changes during drilling activities, the driller must update their notification with the anticipated aquifer type.

Any change in the anticipated start date of construction/installation must be re-noticed (at least one calendar day prior to revised anticipated date). Information regarding the notification process and a link to the electronic notification form can be found on the following webpage: http://water.state.co.us/groundwater/BOE/Pages/VariancesWaivers.aspx

**Approval**

This policy may only be modified or revoked in writing by the Board of Examiners of Water Well Construction and Pump Installation Contractors.

Approved ____________________

_____________________________
Keith Branstetter, Chairperson
Board of Examiners of Water Well Construction and Pump Installation Contractors
WHAT LEGACIES ARE MADE OF

Todd Armstrong
580-478-7288
tarmstrong@gefco.com
FOR IMMEDIATE RELEASE

Press Contact
Ben Frech
Public Relations Manager
National Ground Water Association
T: (614) 898-7791, ext. 1570
E: bfrech@ngwa.org

The National Ground Water Association Presents Todd Hunter, CWD/PI with Robert Storm Intersectional Cooperation Award

Award to Honor Mr. Hunter’s Contributions to the Groundwater Industry

(WESTERVILLE, OH — October 7, 2019) Todd Hunter, CWD/PI, President of Boulder GWS LLC in Boulder, Colorado, will receive the Robert Storm Intersectional Cooperation Award from the National Ground Water Association (NGWA).

The award, which will be presented to Mr. Hunter at NGWA’s Groundwater Week in Las Vegas, is in recognition of those who promote collaboration, enhancing cooperation, and fostering community among groundwater professionals.

Hunter began his career in the groundwater industry as a drillers helper and has since become a leader and expert in the field of drilling and groundwater systems. After a decade of constructing water wells and systems at one of Colorado’s top drilling companies he accepted a position with the U.S. Geological Survey (USG) research operation.

While working in research drilling at the USGS, Hunter managed a wide variety of drilling projects including early research on the international project for global climate change understanding. Following

(Continued on page 30)
his service at the USGS, Hunter worked as a horizontal and directional oil driller until June of 1999 when he returned to operate, and ultimately purchase Groundwater Systems in Boulder.

Hunter’s devotion to his profession and the industry is obvious through his service to NGWA and the Colorado Water Well Association. Hunter was the 2017 President of NGWA, and has served on the Board of Directors of both associations as well as various committees.

“During his time as President of NGWA, Todd worked with all divisions for the betterment of the whole organization. I remember my first mid-year Board meeting and we discussed at great length Board Governance. It took a long time to get where we are today! Todd worked diligently so all NGWA sections became relevant to the governing process.” Says John Henrich, MGWC, CVCLD, CGD, Chairman of Bergerson-Caswell, Inc, and Past President of the NGWA.

When not serving the groundwater industry and his community Hunter enjoys flying airplanes and riding motorcycles.

For more information or additional comments please contact Ben Frech at bfrech@ngwa.org or call (614) 898-779, ext. 1570.

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The National Ground Water Association is a not-for-profit professional society and trade association for the global groundwater industry. Our members around the world include leading public and private sector groundwater scientists, engineers, water well system professionals, manufacturers, and suppliers of groundwater-related products and services. The Association’s vision is to be the leading groundwater association advocating for responsible development, management, and use of water.
FOR IMMEDIATE RELEASE

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E: bfrech@ngwa.org

Travis Zielke Receives Designation of Certified Groundwater Professional

The Prestigious Designation Is Recognized by
Outstanding Groundwater Professionals from Across the World

(WESTERVILLE, OH — September 25, 2019) Travis Zielke, hydrogeologist at engineering firm Lamp Rayerson in Fort Collins, Colorado, has been reviewed and unanimously approved for the designation of Certified Groundwater Professional by a panel of current Certified Groundwater Professionals.

Zielke joins an elite roster of just over one hundred professionals globally who hold the designation, demonstrating competency in a wide range of topics in groundwater science including remediation, geochemistry, modeling, hydrogeology and hydraulics, geology and geomorphology, scientific writing and presentation, and professional ethics.

The Certified Groundwater Professional designation was started in 1986 for groundwater professionals who are at the top of their fields and strive to uphold the dignity of their profession.

With over a decade of hydrogeological experience, Zielke specializes in water rights and litigation support as well as GIS analysis and groundwater modeling studies.

(Continued on page 33)
$4,000 - $35,000 SEMCO Pump Hoists

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We have 11 different sizes for your well working needs. Personal or Company Use, Residential and Commercial.

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1"-2" and 2-1/2"-4"
Zielke obtained a Bachelor of Science degree in Environmental Geology with a minor in Spatial Information Management from Colorado State University. He has worked with nationally recognized firms specializing in engineering and groundwater studies and has been a member of the National Ground Water Association since 2016.

For more information or additional comments please contact Ben Frech at bfrech@ngwa.org or call 614-898-7791, ext. 1570.

The National Ground Water Association is a not-for-profit professional society and trade association for the global groundwater industry. Our members around the world include leading public and private sector groundwater scientists, engineers, water well system professionals, manufacturers, and suppliers of groundwater-related products and services. The Association’s vision is to be the leading groundwater association advocating for responsible development, management, and use of water.
Winter is upon us so I thought this might be a good time to talk to you again about hypothermia. I have talked about this in the past but I think it’s a good topic to revisit for winter time. Hypothermia is a severe condition in which the body temperature drops to an abnormally low level. It occurs when the body is unable to produce enough heat to counter the heat that it is losing. The part of the brain that controls body temperature is called the hypothalamus. Under normal conditions, when the hypothalamus recognizes changes in body temperature, it initiates body responses to bring the temperature back in line.

The body loses most of its heat through the skin by means of convection, conduction, radiation and evaporation. When the temperature drops the body’s first line of defense is to start shivering. This causes the muscles to generate more heat. When this cannot keep up with the heat loss, the body shunts blood away from non-vital organs to the vital organs such as the heart, lungs, kidneys and brain. The heart and brain are most sensitive to lower temperatures, and electrical activity in these organs slows down when they become cold. It is for this reason that as hypothermia sets in we start to see a change in the person’s mental status.

Signs and symptoms to watch for with the onset of hypothermia are excessive shivering, cool pale skin, nausea and changes in mental status. People in severe hypothermia have been known to remove their clothes before they died.

Treatment will depend on the degree of hypothermia, but the goal will be to rewarm the victim.

Treatment: Anyone with symptoms of hypothermia will need immediate medical assistance. Until medical assistance arrives, taking the following action can help:

- move the person to a warm, dry place, if possible, or shelter them from the elements. If possible place them in a vehicle with the heater running.
- remove any wet clothing
- cover the whole body and head with blankets, leaving only the face clear
- put the individual on a blanket to insulate them from the ground
- monitor breathing and be prepared to perform CPR
• provide skin-to-skin contact, if possible, by removing clothing and wrapping yourself and the individual in the blanket together to transfer heat
• provide warm drinks, if the individual is conscious, but no alcohol or caffeine

It is vital not to use direct heat, such as heat lamps or hot water, as this can damage the skin. It can also trigger irregular heartbeats and, potentially, lead to cardiac arrest.

Do not rub or massage the person either, as these potentially jarring movements could also cause cardiac arrest.

In severe hypothermia they may need to have warmed IV fluids, therefore it is important to seek advanced medical help.

Hope this helps. As always give me a call if you have any questions or suggestions for upcoming articles.

Thanks again,

Gene
**CWWCA BUCK LIVELY SCHOLARSHIP FUND APPLICATION**

**SECTION 1: PERSONAL INFORMATION**

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<tr>
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<tr>
<td>City</td>
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</tr>
<tr>
<td>Parent’s Cell Phone</td>
<td>Student’s Cell Phone</td>
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<tr>
<td>Parent’s Email</td>
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**SECTION 2: ACADEMIC INFORMATION**

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<td>University/College/Trade School Name</td>
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**SECTION 3: SPONSOR**

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<th>CWWCA Member Sponsor’s Name</th>
<th>Relationship to Applicant</th>
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<tr>
<td>Sponsor: I have reviewed this application and confirm that this information is accurate to the best of my knowledge.</td>
<td></td>
</tr>
<tr>
<td>Sponsor’s Signature</td>
<td>Date</td>
</tr>
</tbody>
</table>
CWWCA BUCK LIVELY SCHOLARSHIP FUND APPLICATION

SECTION 4: REQUIRED DOCUMENTS

TO MAIL
- BY MARCH 31ST
  1. Your completed application
  2. Your most recent official academic transcript
     **Incomplete applications and unofficial transcripts will not be accepted**
  3. A minimum of two current written recommendations from individuals that are not
direct family members
  4. BY JANUARY 21ST - Your official transcript of the year following receipt of
     scholarship funds

TO EMAIL
- BY MARCH 31ST
  1. An educational and career goals statement - a one page, single sided essay, 200 words
     minimum, in a WORD DOCUMENT, labeled with your name, emailed to
     execdir@cwwca.org
  2. A recent photo of yourself emailed to execdir@cwwca.org

- BY DECEMBER 1ST - A short one minute JPEG video of yourself, explaining how the
     scholarship has helped you and your academic success, emailed to execdir@cwwca.org
     Feel free to have fun with this video. We need your video by December 1st of the year
     awarded funds to help raise further funds for the Buck Lively Scholarship Fund at the
     CWWCA Annual Conference in January
- BY JANUARY 21ST - A concise, mid-year progress report, no more than two
     paragraphs, in a WORD DOCUMENT, labeled with your name, emailed to
     execdir@cwwca.org

COMPLETE APPLICATIONS MUST BE POSTMARKED AND
RECEIVED BY MARCH 31ST

CWWCA Buck Lively Scholarship Fund
3000 South Jamaica Ct, #145
Aurora, CO 80014
Phone: 720-244-8024
Email Colleen Schneider: execdir@cwwca.org

I, __________________________________________, as an applicant for the CWWCA Buck Lively
Scholarship Fund, attest that the information provided in this application, and all submitted
attachments are accurate and true to the best of my knowledge.

Applicant’s Signature ___________________________ Date ________
Rehabilitation 101: Water Wells & Injured Workers

Nothing lasts forever. Helping your customers protect their Water Well asset and getting the most from an existing Water Well, eventually may involve well rehabilitation.

Time is Money. And the more time it takes for an Injured Worker to Return to Work, the more $$$ you stand to lose. Rehabilitation and speed are essential parts of a sustainable workers compensation program.

Did you know if you damage or lose a well while rehabilitating it, then it’s unlikely to be covered by ordinary insurance?

AssuredPartners offers insurance solutions that can replace a lost well. Protect yourself correctly as you perform well rehabilitations.

If a well is lost, can you afford to replace it?

AssuredPartners knows that replacing a well yourself is costly. Time, money, and reputation can all suffer.

AssuredPartners Insurance can do more for you!

Did you know there is more premium $$$ to be saved or lost in Work Comp than anywhere else?

AssuredPartners’ gets results faster with our Exclusive NGWA Work Comp and is designed to save premium, both now and in the future.

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Kyle Rehme or Steve Smith
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Provided by: AssuredPartners Colorado dba Front Range Insurance Group

Preventing Trench Collapse

It’s a simple matter of physics—trench walls want to collapse. When they do, it happens quickly, and the results can be fatal. It doesn’t take much dirt to trap and crush a worker, which is why it is important that you take the proper precautions during excavations that require a trench deeper than 5 feet.

Keep the Surface Clean
Trench collapse occurs when the trench walls can no longer contain the large amount of pressure put on them by the surrounding soil. While this can be a problem at any depth, it is made worse when excavated materials are piled at the edge of the trench. To reduce some of the pressure put on trench walls:

- Pile all excavated materials at least 2 feet back from the edge of the trench. If there is not enough room to allow at least 2 feet, remove excavated materials from the immediate location.

- Do not work around the edge of the trench when others are below.

- Keep equipment away from the trench edge. Not only can it cause cave-ins but there is also a chance that it could fall on those working below.

Slope for Stability
Another way to reduce the pressure put on trench walls is to use a sloping or benching system.

- Sloped Walls – A 34-degree slope should be used when digging to prevent a section near the top from giving out and burying the bottom of the trench.

- Benching – When there is enough space available, benching allows a trench to be dug in a series of steps that slowly descend to the deepest point.

Reinforce Trench Walls
Once a trench has been dug, the walls should be braced in a way that will protect those working in the area if a cave-in does occur.

- Construct a support system made with posts, beams, shores or planking and hydraulic jacks.

- Never excavate more than 2 feet past the bottom of the support system.

- Make sure there is always a safe exit route within 25 feet of where you are working in the trench.

Trench Boxes
A trench box can be used as a convenient alternative to build a support system directly into a trench. However, for it to provide the proper protection it must be used properly.

- Always place the trench box before entering the trench.

- Enter directly into the box.

- Never move the box while workers are in the trench.

This safety matters flyer is for general informational purposes only, and is not intended as medical or legal advice. © 2010, 2014, 2019 Zywave, Inc. All rights reserved.
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2020 CWWCA MEMBERSHIP APPLICATION

Last Name________________________ First Name________________________ Initial____

Company Name__________________________________________________________

Address__________________________

City________________________ State__________ Zip Code____________________

Telephone________________________ Fax__________________________

Cell________________________ Email________________________

DO YOU WISH TO HAVE YOUR NAME LISTED ON THE WEB PAGE? YES ( ) NO ( )
LICENSE #____________________ (WE MUST HAVE THIS TO PLACE YOU ON THE WEB PAGE)
You Must Check_____yes or no____ otherwise we will assume that your answer is NO

PLEASE ENTER YOUR DISTRICT #______

UPGRADE MEMBER LISTING ON WEBSITE $ 50.00 $____

PLEASE CHECK THE APPROPRIATE MEMBERSHIP CATEGOR Y

____ 1. Drilling Contractor (owner or manager of a well drilling business) $198.00

____ 2. Pump Installation Contractor (owner or manager of a pump installation business) $198.00

____ 3. Drilling and Pump Installation Contractor (owner or manager of both businesses) $198.00

____ 4. Associate (any person or firm engaged in the manufacturing or selling of equipment services for the water well industry) $198.00

____ 5. Technical (an hydrologist, geologist or engineer involved in teaching, research, consulting or government services concerned with the ground water industry) $ 115.00

____ 6. Retired (retired members wishing to retain membership privileges) $ 50.00

____ 7. Affiliate (professionals having an interest in the water well industry) $ 50.00

____ 8. Employees (employees of paid members---$60.00 each employee) $60.00

________ Please list name and address of each employee at the top of the page $ 60.00

____ 9. Student $ 20.00

The CWWCA Buck Lively Scholarship Fund is recognized as tax-exempt under IRS Code Section 501(c)(3). VOLUNTARY DONATIONS to this organization are tax deductible as a charitable contribution to the full extent permitted by law.

THANK YOU FOR YOUR TAX EXEMPT SCHOLARSHIP DONATION $____

TOTAL $____

$15 of your CWWCA dues is applied towards lobbying efforts on your behalf. The $15.00 is NOT tax deductible.

Method of Payment
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Name and Billing Address on Card __________________________________________

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CWWCA 2019

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e-mail: dniemela@bbawater.com

DRILLER AND/OR PUMP INSTALLER APPRENTICESHIP PROGRAM

The Colorado Water Well Contractors Association Apprenticeship Program is a voluntary program for CWWCA members, developed to assist individuals that would like to obtain a water well driller license and/or a pump installation license in the state of Colorado. Records will be kept by the CWWCA and available to the applicant to provide proof of experience to the Board of Examiners (BOE) during the license application process.

By the end of each year of apprenticeship the apprentice must attain two continuing education hours. At the end of the apprenticeship, the apprentice must comply with the existing rules for continuing education as set forth in the BOE Rules 2 CCR 402-14 concerning continuing education to obtain a driller’s and/or pump installer’s license. A Continuing Education Form (similar to the one provided to the licensed contractors by the State during the renewal process each year) will be provided to the apprentice at the end of each calendar year so the CE’s earned can be documented.

For full information on this and other CWWCA educational opportunities, go to cwwca.org and look under education.
TIME FOR RESERVATIONS!

2020 CWWCA ANNUAL CONFERENCE

Denver Marriott Tech Center
January 8-10, 2020