See new statewide protocol revised June 2022

ADMINISTRATION PROTOCOL Augmentation Plan Accounting Division One - South Platte River Revised October, 2021

This protocol establishes the accounting and reporting process required to enable the division engineer's office to determine if depletions from all out-of-priority diversions are being replaced so as to prevent injury to vested water rights. The accounting must follow "cradle to grave" accounting practices that track exactly how the data are manipulated from raw data input (e.g., meter readings) to the resultant impact on the river. While this protocol is subordinate to any decreed language addressing specific accounting equations, it generally addresses the minimum requirements of such accounting.

The accounting must use the standard convention where a depletion shown as a regative value and an accretion or other replacement source is shown as a positive value. The difference of depletions and replacements will then result in either a negative or positive impact on the stream.

1. Accounting must be submitted electronically to the obligion engineer and water commissioner through the online data submittal portal at the following link on our vebsite: https://dwr.state.co.us/Tools/reporting. If not already registered, you will need to create a new account through that link.

Typically, submittals are due within 20 days of the end of the month for which the accounting is being submitted, unless decreed otherwise. As this all data or more frequent submittals may be required by the water commissioner if required or administration. Accounting submittals not submitted through the online data submittal portal or questions or garding accounting submittals may be emailed to dnr_Div1Accounting@statcounts.

The following naming covernor, ast be used for all files submitted via email: "PlanWD. YYMMDD"

where: PlanWDID is the WDID assigned by the division engineer's office

YYMMDD corresponds to the date the accounting is submitted.

As an example, the assigned WDID for the former GASP plan was 0103333. If accounting using Excel® was submitted for that plan on May 15, 2004, the file name would be:

"0103333_040515.xls"

- 2. The accounting must include a Contact & Plan Information tab, that includes the 7-digit WDID for the plan for augmentation/SWSP, the 4-digit SWSP ID (if applicable), and contact information (i.e., name, phone number, email address) for the augmentation plan accounting including:
 - a. the owner(s) of each augmented structure
 - b. the person responsible for submitting the accounting
 - c. the plan administrator and/or the plan attorney.

- 3. All of the raw input data (i.e., meter readings, water pumped from wells, etc.) must be provided and organized in a single location, such as an "Input" worksheet, etc. The accounting must include the following input data listed below, as well as relevant WDIDs and permit numbers.
 - a. Diversion data from flumes or weirs and unit of measurement.
 - b. The required input data for each well is:
 - i. the monthly flow meter reading as shown on the flow meter; date of the meter reading; flow meter multiplier (i.e., 0.001, 10, 1); units of volume (i.e., gallons or acre-feet); the meter serial number; correction factor, if any.
 - ii. The total volume pumped, showing the calculations using the information in Item "i" above.
 - iii. factors from the decree or SWSP that provide for the well consumptive use and depletions (i.e., presumptive depletion factor (PDF), water balance methodology, lagging parameters, etc.).
 - iv. Any well permitted or decreed as an alternate point of diversion (APOD) to a surface water right <u>must report pumping on a daily basis</u> if any of the diversions during the month is claimed as being "in priority". (See Administration Proteon ROD Wells for more details.)
 - c. If applicable, data for each recharge structure must be included and couply with the appropriate decree(s) or SWSP Approval requirements and any applicable current catewide Administration Protocol. At a minimum the following should be reported to the accounting:
 - i. 7-digit WDID and name of recharge structure
 - ii. daily volume in AF diverted into the site;
 - iii. monthly volume in AF released from the view
 - iv. monthly gross evaporative loss is Ar,
 - v. volume of water in AF remaining at the and of the month.
 - d. The accounting must identify each cours of replacement water actually delivered to the stream and how replacement water at that location offset the depletions. To demonstrate the water was actually delivered to the required location will require the following information:
 - i. the name (water court case, lease, etc.) and WDID of the originating source of the replacement witer late released and volume of water released;
 - ii. transit loss from point of release to point of depletion or use, if any, using stream loss factors approved by the water commissioner;
 - iii. the volume of their actually delivered on a daily basis past any surface water diversion that was sweeping the river as corroborated by the water commissioner. (See Administration Protocol Delivery of Water for more details on delivering water).

For each source of replacement water that has been "changed" for use as a source of augmentation, such as changed reservoir shares, changed rights from a ditch, or credits from dry-up, etc., the following input information must be reported:

- i. the decreed volume of return flow obligation;
- ii. if not specified in the decree or SWSP, the location and timing of the owed return flow on the stream(s).
- 4. If required by the decree or SWSP, the accounting must include a monthly projection of the plan's operation at least through March 31 of the next calendar year, or as specified in the decree or SWSP.
- 5. The accounting submittal must include output associated with modeling showing monthly delayed depletions (from well pumping or return flow obligations) and/or accretions (from recharge).

6. All accounting must provide a net impact summary that shows a daily balance of the out-of-priority depletions, accretions from each recharge site, volume of replacement water actually delivered and the resultant net impact. If necessary, a net impact must be shown for each applicable river and reach.

While modeling may use a monthly step function to determine the depletions from pumping and accretions from recharge, the monthly result must then be divided by the number of days in the month in order to simulate a daily impact, as water rights are administered on a daily and not monthly basis.

The accounting should indicate that the replacement water is equal to the depletion(s) such that the daily net impact (using the simulated daily numbers from the modeling) is not negative, unless the water commissioner approves less frequent aggregation of replacements without injury to downstream water rights.

In the instance that aggregation is allowed, replacement is needed only for days with out-of-priority depletions. For example, if a well is out-of-priority for 15 days during a month, replacement must be made only for the 15 days the well is out-of-priority. Likewise, any simulated daily accretions will only count toward replacing the depletion on the days the well is out-of-priority. The accretions that accrue to the river when the well is in priority cannot be applied to different days with out-of-priority depletions.

- 7. The basis for determining that the depletions are out-of-priority should be data from the Division of Water Resources' Administrative Calls & Analysis Tool (https://dwr.state.co.us/https://dwristate.co.us/https://dwristate.co.us/https://dwristate.co.us/https://dwristate.co.us/https://dwristate.co.us/https://dwristativeCalls/Active) and should be included in the accounting along with the relative states in the determination of a structure being in or out of priority. The analysis may be done, unless oth wise limited by decree, for each well or groups of wells, provided the most junior water right associated with the group of wells is used as the reference water right for the group's out-of-priority satus
- 8. The accounting shall include all the required information submittal in addition to the information submitted from previous month such that the information and monthly submittals are a cumulative report each month throughout the amonth eporting period.
- 9. If a well is covered in multiple SWSP or augmentation plans, the monthly meter readings must be the same in the accounting for each plan covering the stylect well. The accounting for every plan covering the well shall state the proportionate and total pumping amount covered by each plan to assure all out-of-priority depletions are replaced.
- 10. The following addition a accounting equirements apply when sources of replacement water are used in more than one plan.
 - a. The entity provides replacement water to the stream is responsible for accounting for the total amount of replacement water and how much of the total went to each plan.
 - b. The amount of replacement water claimed for a particular augmentation plan must match the amount in the accounting from the entity providing the replacement water to the stream.
 - c. The amount of replacement water claimed for use by one or more water users shall not exceed the amount of replacement water physically and legally available. (See Administration Protocol Use Of Unnamed Sources For Replacement for additional requirements concerning required notice and approval of sources of replacement not specifically described in a SWSP or augmentation plan).

REVOKED 9/30/2021

See new statewide protocol revised June 2022

ADMINISTRATION PROTOCOL Augmentation Plan Accounting Division One – South Platte River

This protocol establishes the accounting and reporting process required to enable the division engineer's office to confirm that depletions from all out-of-priority diversions are being replaced so as to prevent injury to vested water rights. The accounting must comport with established "cradle to grave" accounting standards, which allow an audit of the information to track exactly how the data is manipulated as it is translated from raw input data to the resultant impact on the river. While this protocol is subordinate to any decreed language addressing specific accounting requirements, it generally addresses the minimum requirements of such accounting.

The accounting must use the standard convention where a depletion is "negative" and an accretion or other replacement source is "positive". The sum of the impacts will then result in either a "negative" or "positive" impact on the stream.

Wells in plans that have a negative stream impact must provide additional replacement water, curtail pumping or both until the impact is no longer negative. Plans with a negative stream impact that fail to curtail pumping will be ordered to sup pumping until such time as the projected impact of the wells is no longer negative.

- 1. Accounting must be submitted electronically to be water commissioner (call 970-352-8712 to obtain email address) and division entire or at Div1Accounting@state.co.us within 30 lay of the end of the month for which the accounting is being submitted.
- 2. The accounting must provide the contact information including name and address for:
 - a. the owner(s) of each Vell
 - b. the person report submitting the accounting
 - c. the plan aminimator and/or the plan attorney.
- 3. All **input data** must be in the location, such as an "Input" worksheet, etc. The accounting must show an pumping. Input data includes the information listed below.
 - a. The ruired input data for each well is:
 - i. the monthly meter reading for wells that use a presumptive depletion factor (PDF) to determine the associated consumptive use (CU); or
 - ii. the monthly CU in acre-feet (AF) for wells that have a decree or approved SWSP that allows the wells to use a water balance methodology to determine the CU of the well. The analysis used to determine the CU must be included with the accounting.
 - iii. Wells that are decreed as an alternate point of diversion
 (APOD) to a surface water right <u>must report pumping on a daily basis</u> if any of the diversion during the month is claimed as being "in priority". (See Administration Protocol APOD Wells for more details.)

- iv. The well meter serial readings for each meter shall be included if there is more than one meter on a well.
- b. Each **recharge site** must comply with the *Administration Protocol Recharge* and must report the:
 - i. daily volume in AF diverted into the site;
 - ii. monthly volume in AF released from the site;
 - iii. monthly net evaporative loss in AF;
 - iv. volume of water in AF remaining at the end of the month.
- c. The accounting must identify each source of fully consumable replacement water actually delivered to the location impacted by the depletions. To demonstrate the water was actually delivered to the required location will require the following information:
 - i. the originating source of the water, date released and volume of water released;
 - ii. transportation losses to point of diversion or use if any, using stream loss factors approved by the water comprissioner;
 - iii. the volume of water actually devered on a cally basis past any surface water diversion that was reepin, the river as corroborated by the water commission.
 - (See Administration Prote a But ery of Water for more details on delivering water)
- d. For each source of **replacement yater that has been "changed"** for use as a source of at amountation, such as changed reservoir shares, ditch bypass credits of credit from dry-up, etc., the following input information must be reported:
 - i. the asis and volume of the return flow obligation;
 - ii. the location the changed water was historically used; this will be elocation used to determine the timing of the return flow impact of the inver.
- 4. The accounting must include a monthly **projection** of the plan's operation at least through March 31 of the next calendar year.
- 5. The accounting must include all input and output files associated with modeling the delayed impact of diversions. The output from the modeling must report to a summary table that shows, by month, the ongoing depletions associated with pumping, return flow obligations, etc. and accretions from recharge operations.
- 6. A **net impact** summary must show the out-of-priority depletions, accretions from each recharge site, volume of replacement water actually delivered to the location of the depletions and the resultant net impact on **a daily basis**. If necessary, the net impact must be done by river reach.
 - While **modeling** may use a **monthly step function** to determine the depletions from pumping and accretions from recharge, the monthly result must then be **divided by the number of days in the month** in order to **simulate a daily impact**, as water rights are administered on a daily and not monthly basis.

Replacement water must be provided such that the **daily net impact** (using the simulated daily numbers from the modeling) **is not negative**. If a well is out-of-priority for 15 days during a month, replacement must be made only for the 15 days the well is out-of-priority. The replacement must be made, however, on a daily basis as opposed to, for instance, making an aggregated release equal to the volume of the out-of-priority depletions. Likewise, the simulated daily accretion will only count toward replacing the depletion on the days the well is out-of-priority. The accretions that report to the river when the well is in priority cannot be used to replace the out-of-priority depletions.

The accretions that impact the river when the well is in priority are not considered "excess" unless the cumulative net impact of the well is not negative for the entire irrigation year to date. (The irrigation year for this purpose is April 1 thru the following March 31.) Until such time as the cumulative net impact is not negative, the accretions must simply be released to the river and cannot be leased to other plans or recaptured. Plans that show a positive cumulative net impact are still required to make replacements on a daily basis; the cumulative analysis only effects whether or not accretions reporting to be river when the well is in priority are considered "excess" and are, the efore, and to be recaptured.

- 7. The basis for determining that the depletions are **out of-pix rity** must be clearly established and all steps in the calculation includer in the accounting. The analysis may be done, unless otherwise limited by decree, for each well or groups of wells, provided the most junior water right associated with the group of wells is used as the reference water right for the group's out-of-priority status.
- 8. Accounting must include **actual information** for the irrigation year through the month for which the accounting is being submitted **AND projections** of the plan operation through March 31 of the next calendar year.
- 9. The following **naming convention** must be used for all files submitted pursuant to item 1:

"PanWPAD YYMMDD"

where: PlanWDID is the WDID assigned by the division engineer's office YYMDD corn ponds to the date the accounting is submitted.

As an example, the assigned WDID for the former GASP plan was 0103333. If accounting using Excel® was submitted for that plan on May 15, 2004, the file name would be.

"0103333_040515.xls"

The name of the file must be in the subject line of the email.

10. All accounting must be reported using the WDID for the structure, at a minimum. Other information such as well name, permit number, etc. may also be included as desired. All wells must be decreed by the water court, permitted by the state engineer or included in a decreed plan for augmentation. Unregistered and undecreed wells cannot, in the opinion of the division engineer, be effectively administered because of the need to know the location, allowable diversion rate and use of the well - information that is only available from the decree or permitting process.

- 11. If a well is covered in multiple SWSP's or augmentation plans, the monthly meter readings must be the same in the accounting for each plan covering the subject well. The accounting for every plan covering the well shall state the proportionate pumping amount covered by each plan to assure all out-of-priority depletions are replaced.
- 12. The following additional accounting is required for sources of replacement water used for more than one plan. The water right owner of the replacement water is responsible for accounting for the total replacement amount and how much each plan is using of that total amount. The accounting for portions of the replacement water by other users must match the accounting of the water right owner. The amount of replacement water used by the water right owner and other users together shall not exceed the total replacement amount available.

(See Administration Protocol – Use Of Unnamed Sources For Replacement for additional requirements concerning required notice and approval of sources of replacement not specifically described in a SWSP or augmentation plan)

