

1 1. CAGRD has identified sufficient water supplies to meet its replenishment
2 obligations for current members during the 20 calendar years following submission of the Plan and
3 has identified additional water supplies potentially available for its projected groundwater
4 replenishment obligations for the 100 calendar years following submission of the Plan for current
5 members and potential members based on reasonable projections of real property and service areas
6 that could qualify for membership in the 10 years following submission of the Plan.

7 2. The replenishment reserve target for each AMA was calculated as prescribed in
8 A.R.S. § 48-3772(E), and CAGRD is developing a replenishment reserve in each AMA pursuant
9 to A.R.S. § 48-3772(E).

10 3. CAGRD has identified sufficient capacity at storage facilities and projects to be used
11 for replenishment purposes during the 20 calendar years following submission of the Plan.

12 4. CAGRD has made a reasonable estimate of its projected replenishment obligations
13 for the 100 calendar years following submission of the Plan as required by A.R.S. § 45-
14 576.02(C)(2)(b).

15 **II. SUMMARY OF PUBLIC COMMENTS**

16 No oral comments were made at the public hearings conducted in connection with the Plan.
17 The Department received written comments which are summarized in this Section II. Where
18 specific comments are relevant to particular Findings made by the Director in Section III below,
19 those comments are discussed more fully in Section III.

20 Mohave County Water Authority (“MCWA”) (by letter dated March 24, 2015)

21 MWCA states that it supports a “midterm adjustment” to the Plan “to allow better reaction
22 to actual CAGRD demand versus that forecasted” and that it supports “the idea of performance
23 benchmarks.” MCWA states that any transfers of Colorado River water from the river’s mainstem
24 for replenishment purposes represents an effective reallocation of Colorado River water in Arizona
25 and should “only be done pursuant to a full and open public process on a statewide basis.” MCWA
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1 states that reliance on Colorado River supplies should include more discussion and analysis of
2 “shortage and structural deficit impacts.” MCWA objects to “reference to 200,000 a/f of [Multi-
3 Species Conservation Program (“MSCP”)] coverage available to CAGR D for transfers.” MCWA
4 states that “[b]eyond the plan,” it “supports analysis and discussion of whether the ‘replenishment’
5 approach is sustainable over the long term.”

6 Pima County Regional Wastewater Reclamation Department (“Pima County”) (by letter
7 dated April 3, 2015)

8 Pima County expresses support for legislation which permits voluntary termination of
9 member land status in order to decrease CAGR D’s replenishment obligations. Pima County states
10 that the Plan reveals an “unmet” obligation of 50,370 acre-feet in 2034 and an additional 26,100
11 acre-feet in obligation in 2114, as well as a target reserve deficit for the Tucson AMA. Pima County
12 objects to CAGR D’s proposed reliance on long-term storage credits (“LTSCs”) and stored effluent
13 for replenishment purposes to the extent those supplies bring no “new” water into the Tucson AMA
14 and to the extent the replenishment is not made in close proximity to where groundwater is pumped.
15 Pima County urges the Department to require CAGR D to replenish within the hydrologic area of
16 impact of member lands’ withdrawals or to require that the CAGR D deliver renewable water using
17 water delivery infrastructure or wheeling agreements. Additionally, Pima County notes that the
18 future availability of excess Central Arizona Project (“CAP”) water and non-Indian agricultural
19 pool water is uncertain in light of potential shortage declaration and increased use of entitlement
20 holders to use their entitlements.

21 Douglas Ranch El Dorado, LLC; DMB Associates, Inc.; Sunbelt Holdings; and Robson
22 Communities (“Douglas Ranch, et al.”) (by letter dated April 6, 2015)

23 Douglas Ranch, et al., state that the Plan complies with all of the elements of A.R.S. § 45-
24 576.03(N)(1)-(4) for each of the AMAs. They state that the applicable statute does not require that
25 CAGR D demonstrate that it has already acquired all water supplies needed to fulfill its obligations
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1 for the next 20 years or the next 100 years. Douglas Ranch, et al., state that the extensive and
2 detailed modelling structure developed by CAGR D along with other materials submitted to the
3 Department demonstrate that CAGR D's membership projections and replenishment obligations are
4 reasonable. Douglas Ranch, et al., state that the Plan contains the reserve target for each of the three
5 AMAs calculated as prescribed by A.R.S. § 45-576.03(N)(2), and that the storage credits already
6 acquired by CAGR D satisfy the replenishment reserve development requirement of A.R.S. § 45-
7 576.03(N)(2). They state that the underground storage capacity described in the Plan far exceeds
8 CAGR D's projected replenishment obligations in the three AMAs.

9 Pulte Home Corporation ("Pulte") (by letter dated April 7, 2015)

10 Pulte states that the Plan is consistent with the management goals for each of the AMAs in
11 which CAGR D operates.

12 Home Builders Association of Central Arizona ("HBCA") and Southern Arizona Home
13 Builders Association ("SAHBA") (by letter dated April 7, 2015)

14 HBCA and SAHBA state that the Plan is consistent with the management goals for each of
15 the AMAs in which CAGR D operates.

16 Arizona Municipal Water Users Association ("AMWUA") (by letter dated April 8, 2015)

17 AMWUA states that the Plan does not adequately demonstrate sufficient water supplies to
18 meet CAGR D's current and projected replenishment obligations during the 20 years following
19 submission of the Plan. AMWUA objects to CAGR D's identification of available Colorado River
20 water without discussion of governmental review processes required to transfer Colorado River
21 water. AMWUA also objects to CAGR D's calculation of available Colorado River water in light
22 of projected Colorado River water shortage and declining water levels in Lake Mead. AMWUA
23 states that proposed reliance on Colorado River water is contrary to the Department's and
24 CAWCD's efforts to reduce Colorado River water demand. AMWUA disagrees with CAGR D's
25 calculation of available LTSCs and objects to the Plan because it does not include an analysis of
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1 who might be willing to sell LTSCs and on what terms and conditions.

2 AMWUA states that it is difficult to reconcile previous statements by the CAWCD in March
3 of 2014 regarding likely future reductions of available excess CAP water with CAGR D's estimate
4 in the Plan of CAP water which will be available for replenishment purposes. AMWUA objects to
5 CAGR D's calculation of effluent available during the 20 years following submission of the Plan in
6 light of a December 3, 2013 report created by a consulting firm, HDR, Inc., indicating that "95%
7 of the wastewater generated within the CAP service area 'serves beneficial uses'." AMWUA notes
8 a discrepancy between the HDR, Inc. report's identification of a total of 285,500 acre-feet of
9 effluent generated in Maricopa, Pinal, and Pima Counties (200,000 acre-feet generated in Maricopa
10 County and 20,500 acre-feet generated in Pinal County in 2009 and 65,000 acre-feet generated in
11 Pima County in 2012) and the Plan's identification of 407,600 of current effluent production in the
12 Phoenix, Pinal, and Tucson AMAs. AMWUA also notes that municipalities that treat wastewater
13 are likely to continue to use effluent for their own water supply needs.

14 **III. FINDINGS**

15 After reviewing the Plan and public comments received during the public comment period,
16 the Director makes the following findings:

17 1. CAGR D has identified sufficient water supplies to meet its replenishment
18 obligations for current members in the Pinal AMA during the 20 calendar years following the
19 submission of the Plan.

20 a. CAGR D has estimated its replenishment obligations for current members
21 during the 20 years following submission of the Plan, culminating in an obligation of 62,700
22 acre-feet for the year 2034 in total for all three AMAs. For the Pinal AMA only, CAGR D
23 has estimated that its replenishment obligation for current members will be 2,500 acre-feet
24 for the year 2034.

1 b. CAGRD has identified 36,534 acre-feet per year of “acquired supplies,”
2 identified in Table 4.1 of the Plan, which it plans to use to meet its replenishment obligations
3 in all three AMAs. This annual amount represents CAGRD’s presently “acquired supplies”
4 annualized over the span of 100 years. This amount includes 20,685 acre-feet per year of
5 non-Indian agricultural priority CAP water that will be available to the CAP service area
6 generally beginning in calendar year 2017.

7 c. In addition to these “acquired supplies,” CAGRD has identified between
8 460,100 and 920,200 acre-feet per year of additional supplies which CAGRD states are
9 currently available and likely to be used to meet its 20-year replenishment obligation for
10 current members within all three AMAs.

11 d. With respect to CAGRD’s obligation to identify supplies to meet its
12 replenishment obligations for current members during the 20 years following submission of
13 the Plan, CAGRD is not required to demonstrate that it has already acquired all of the
14 supplies needed to meet its projected replenishment obligations. Instead, CAGRD may
15 identify supplies which are likely to be available for acquisition by CAGRD for purposes
16 of satisfying its replenishment obligation for current members during the 20 years following
17 submission of the Plan. These must be supplies which are not presently subject to legal or
18 administrative barriers preventing their acquisition and use for replenishment purposes
19 during that 20-year period.

20 e. Long-Term Storage Credits

21 i. Beyond the amounts of “acquired” supplies listed in Table 4.1 of the
22 Plan, CAGRD has identified between 11,000 and 22,000 acre-feet per year of
23 LTSCs within the AMAs and the Harquahala INA as being available for
24 replenishment purposes during the 20 years following the submission of the Plan.
25 CAGRD defines LTSCs for this purpose as any existing LTSC not currently owned
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1 (or subject to an existing purchase agreement) by CAWCD, CAGR D, or the Arizona
2 Water Banking Authority, and not currently pledged to a Designation of Assured
3 Water Supply. CAGR D has calculated an annual available supply of existing LTSCs
4 by dividing the total number of LTSCs by 100 years.

5 ii. AMWUA objects to the Plan because it does not include an analysis
6 of who might be willing to sell LTSCs and on what terms and conditions.

7 iii. CAGR D is not required to provide an analysis in the Plan of who
8 might be willing to sell LTSCs and on what terms and conditions. The market for
9 LTSC is sufficiently well-established, predictable, and relatively free from legal and
10 administrative impediments such that CAGR D may rely upon these supplies in
11 connection with identifying sufficient supplies to meet its 20-year obligation for
12 current members without identifying entities that might be willing to sell LTSCs and
13 on what terms and conditions.

14 iv. AMWUA suggests, without explanation, that LTSCs held by Salt
15 River Project, the Gila River Indian Community, the Bureau of Reclamation, and
16 municipal water providers that are cities and towns should not be included in
17 CAGR D's calculation of available LTSCs.

18 v. The Department is not aware of any legal or administrative barriers
19 preventing the transfer of LTSCs held by Salt River Project, the Gila River Indian
20 Community, the Bureau of Reclamation, or municipal water providers that are cities
21 or towns (exclusive of LTSCs pledged to a Designation of an Assured Water Supply)
22 and which would render the LTSCs unavailable to CAGR D for replenishment
23 purposes during the 20 years following submission of the Plan.

1 vi. Based upon the Department's accounting of LTSCs within the AMAs
2 and the Harquahala Irrigation Non-Expansion Area,¹ the Director finds that the
3 CAGRD's calculation that a minimum of 11,000 acre-feet per year of LTSCs will
4 be available to CAGRD to meet its replenishment obligations in all three AMAs
5 during the 20 years following submission of the Plan is reasonable. The Director
6 finds that these LTSCs are likely to be available for acquisition by the CAGRD for
7 purposes of meeting its replenishment obligation for current members in all three
8 AMAs during the 20 years after submission of the Plan.

9 vii. While LTSCs will be available in all three AMAs, only those LTSCs
10 which are located within the Pinal AMA should be included for purposes CAGRD's
11 identification of supplies available to meet its 20-year replenishment for current
12 members in the Pinal AMA. In order for LTSCs in one AMA to be available for
13 replenishment purposes within another AMA, water would need to be recovered and
14 physically transferred to the other AMA. This most likely means that the water
15 would need to be transported through the CAP canal, or "wheeled." Wheeling of
16 such water would require an agreement between the U.S. Bureau of Reclamation
17 and CAWCD. At present date, no standard form of wheeling agreement has been
18 approved by the Bureau of Reclamation. Because LTSCs located in the Phoenix and
19 Tucson AMAs are presently subject to a legal and/or administrative barrier which
20 would prevent their physical transfer to the Pinal AMA, they may not be included
21 in CAGRD's calculation of supplies available to meet its 20-year replenishment
22 obligation for current members in the Pinal AMA.

23 ¹ The Department's review of CAGRD's estimate of LTSCs is based upon LTSC account balances for 2013. The
24 Department has not yet completed its process for verifying and calculating credits and debits to those accounts based
25 on storage and recovery activity in 2014; however, based on a preliminary review, the Department does not anticipate
26 its 2014 accounting will reveal a significant reduction (if any reduction at all) in available LTSCs.

1 viii. Roughly 30% of all currently available LTSCs are located in the
2 Pinal AMA.² Therefore, it is reasonable to estimate that CAGR D can acquire at least
3 3,300 acre-feet per year of LTSCs (30% of 11,000) within the Pinal AMA in order
4 to meet its replenishment obligation for current members during the 20 years after
5 submission of the Plan.

6 f. CAP Water

7 i. CAGR D has identified between 279,700 and 559,300 acre-feet per
8 year of CAP water as being available for replenishment purposes during the 20 years
9 after submission of the Plan in all three AMAs. In arriving at this estimate, CAGR D
10 assumed that any CAP water not currently used as “part of a long-term commitment,
11 i.e. dedicated to an Assured Water Supply or otherwise committed to a long-term
12 direct use by the entitlement holder,” may be available during the next 20 years. This
13 includes: (1) all supplies that CAP subcontractors have not ordered for the past four
14 years, “with some adjustments in cases where CAGR D has specific knowledge of a
15 subcontractor’s future plans for full utilization of a supply”; (2) CAP water that is
16 currently being delivered under a lease for five or fewer years (“short-term lease”);
17 and (3) CAP water that is being delivered to an underground storage facility or
18 groundwater savings facility for the purpose of earning LTSCs.

19 ii. AMWUA notes that a March 6, 2014 Action Brief prepared for the
20 CAWCD Board of Directors states, “Since 2009, use of CAP water by long-term
21 entitlement holders has increased significantly, reducing the amount of excess water
22 available for allocation each year That trend is expected to continue over the
23 next several years” and “we do not anticipate having enough excess water over the
24 next five years even to fill the underground storage and CAGR D pools at the levels

25 ² This estimate is based upon 2013 LTSC account balances, in accordance with Department’s review of LTSCs
26 discussed at footnote 1, *supra*.

1 specified in 2009.” AMWUA states that these statements contradict CAGR D’s
2 projections of “unused CAP water” available for replenishment. Pima County states
3 that the future availability of excess CAP water supplies and non-Indian agricultural
4 pool water is uncertain, particularly in light of predicted Colorado River shortage
5 and increasing tendency of CAP entitlement holders to use their entitlements.

6 iii. “Excess CAP water” is defined in the Plan to mean CAP water in
7 excess of quantities scheduled for delivery under long-term contracts and
8 subcontracts.

9 iv. With respect to “excess CAP water” supplies, CAGR D notes that
10 “the availability of excess water for CAGR D use will continue to depend on other
11 demands for that water. . . .” CAGR D’s indicates in its Plan that it will rely on “excess
12 CAP water” as long as it is available, but does not assume its availability for
13 replenishment purposes after 2017. *See* Figure 4.1 of the Plan.

14 vii. Evaluation of shortage impacts on the Plan is outside of the scope of
15 the Director’s review of the Plan for purposes of A.R.S. § 45-576.03(N), as the
16 probability of shortage, and the calculation of its degree, duration, and impacts are
17 too speculative at this time. CAGR D is not required to analyze all scenarios that
18 might occur in the next 20 or 100 years. The applicable statutes recognize that there
19 may be some uncertainty in the future availability of the water supplies identified in
20 the Plan as evidenced, in part, by the requirement that CAGR D develop and maintain
21 a replenishment reserve. Additionally, A.R.S. § 45-576.03(R) permits the Director
22 to require CAGR D to submit a revised plan of operation if at any time between the
23 second and eight anniversary of the Director’s determination of consistency with the
24 management goal, the Director finds that there has been an unexpected increase in
25 CAGR D’s projected obligation or an unexpected decrease in available supplies such
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1 that the Plan no longer demonstrates consistency with the management goal for one
2 or more of the AMAs.

3 viii. The Director finds that in addition to “excess CAP water,” certain
4 “non-excess” CAP supplies, such as supplies which are subject to short-term leases
5 or are being delivered for purposes of accruing LTSCs are likely to be available to
6 CAGRD for acquisition for replenishment purposes during the 20 years following
7 submission of the Plan.

8 ix. Based upon the availability of both excess and certain non-excess
9 CAP water supplies, including amounts delivered under short-term leases and
10 supplies delivered to permitted recharge facilities solely for purposes of accruing
11 LTSCs, the Director finds that CAGRD’s calculation that a minimum of 279,700
12 acre-feet per year of CAP water will be available during the 20 years following
13 submission of the Plan is reasonable. The Director finds that 279,700 acre-feet per
14 year of CAP water is likely to be available to CAGRD for purposes of meeting its
15 replenishment obligation for current members in all three AMAs during the 20 years
16 after submission of the Plan.

17 g. Colorado River Water (Other Than CAP Water)

18 i. CAGRD has identified between 109,800 and 219,700 acre-feet per
19 year of Colorado River water as being available for replenishment purposes for all
20 three AMAs during the 20 years following submission of the Plan. “Colorado River
21 water” for this purpose is defined by CAGRD as the total of Arizona’s consumptive
22 uses of Colorado River water less CAP diversions.

23 ii. MCWA objects to a “reference to 200,000 a/f of MSCP coverage
24 available to CAGRD for transfers.”

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iii. The Department does not find reference to MSCP coverage in the Plan.

iv. AMWUA objects to CAGR D's identification of available Colorado River water without including a discussion of governmental review processes required to transfer Colorado River water. MCWA states that any transfers of Colorado River water from the river's mainstem for replenishment purposes represents an effective reallocation of Colorado River water in Arizona and should "only be done pursuant to a full and open public process on a statewide basis."

v. The Department has issued a Substantive Policy Statement entitled "Policy and Procedure for Transferring an Entitlement of Colorado River Water" which sets forth the policies and procedures for obtaining the Director's review of and advice on proposed transfers of Colorado River water entitlements from a non-Indian contractor or subcontractor for a term of more than one year pursuant to A.R.S. § 45-107(D). This Substantive Policy Statement sets forth requirements for public notice and for opportunity for public comment in the context of proposed conveyances and leases. CAGR D is bound by, and has indicated in its response to comments received on its Plan that it will comply with, all applicable federal and state regulatory requirements in connection with proposed transfers of Colorado River water.

vi. MCWA states that reliance on Colorado River supplies should include more discussion and analysis of shortage and structural deficit impacts. AMWUA also objects to CAGR D's calculation of available Colorado River water in light of projected Colorado River water shortage and declining water levels in Lake Mead. AMWUA states that proposed reliance on Colorado River water is

1 contrary to the Department's and CAWCD's efforts to reduce Colorado River water
2 demand.

3 vii. As described in Finding No. 1(f)(vii) above, concerns regarding
4 potential shortage declarations are outside of the scope of the Director's review of
5 the Plan pursuant to A.R.S. § 45-576.03(N).

6 viii. However, the Director finds that Colorado River water should not be
7 included in the water supplies likely to be available for acquisition by CAGR to
8 meet its 20-year replenishment obligation for current members. In order for
9 Colorado River water to be physically available for replenishment purposes within
10 the three AMAs, such water must necessarily be wheeled through the CAP canal.
11 For the reasons set forth above at Finding No. 1(e)(vii), these supplies are presently
12 subject to a legal and/or administrative barrier which prevents their physical transfer
13 to the three AMAs. Therefore, they may not be included in CAGR's calculation of
14 supplies available to meet its 20-year replenishment obligation for current members.

15 h. Effluent

16 i. CAGR has identified between 59,600 and 119,200 acre-feet per
17 year of effluent as being available for replenishment purposes during the 20 years
18 following submission of the Plan for all three AMAs.

19 ii. AMWUA states that municipalities who treat wastewater will
20 continue to use effluent for their own needs. While this is likely true, the Plan
21 anticipates that population will continue to grow within the three AMAs in
22 connection with estimating CAGR's future replenishment obligations. As
23 population grows in the AMAs and elsewhere throughout the state, amounts of
24 available effluent will increase as well.

1 iii. Furthermore, to the extent that member service areas and member
2 lands enrolled with CAGR D increase reliance upon their own effluent sources,
3 CAGR D's replenishment obligation is likely to be reduced accordingly.

4 iv. AMWUA objects to CAGR D's calculation of available effluent in
5 light of a December 3, 2013 Technical Memorandum created by HDR, Inc.
6 indicating that "95% of the wastewater generated within the CAP service area serves
7 beneficial uses." AMWUA also notes a discrepancy between the HDR, Inc. study's
8 identification of a total of 285,500 acre-feet of effluent generated in Maricopa, Pinal,
9 and Pima Counties and the Plan's identification of 407,600 of current effluent
10 production in the Phoenix, Pinal, and Tucson AMAs.

11 v. CAGR D responds that the report created by HDR, Inc. understates
12 the amount of available effluent because it did not include effluent production from
13 facilities producing less than 1.5 million gallons per day in Maricopa County or from
14 facilities producing less than 500,000 gallons per day in Pima and Pinal Counties.
15 CAGR D states that the calculation of available effluent in the Plan is based upon a
16 2013 survey conducted by WestWater Research for CAGR D. CAGR D states that
17 the HDR's study "assumed that effluent discharged to a surface drainage without
18 accrual of storage credits constitutes 'beneficial use'" and that "CAGR D does not
19 make this assumption."

20 vi. Based upon review of amounts of effluent which were discharged to
21 a stream channel or evaporation pond by municipal providers as reported in 2014
22 Annual Water Use Reports, the Director finds that CAGR D's identification that a
23 minimum of 59,600 acre-feet per year of effluent will be available to CAGR D during
24 the 20 years following submission of the Plan is reasonable. While some of these
25 amounts may currently serve beneficial uses, for instance wildlife, including fish,
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1 discharging entities are not necessarily bound to continue discharging effluent to a
2 stream channel or pond simply because the effluent currently serves such uses.

3 vii. While some volumes of effluent may be available for acquisition by
4 CAGRD in the Pinal AMA for purposes of meeting CAGRD's replenishment
5 obligation during the 20 years after submission of the Plan, the Director lacks
6 information to confirm the presence of available effluent in the Pinal AMA for
7 purposes of meeting CAGRD's 20-year replenishment obligation to current
8 members. As with LTSCs, transfer of effluent supplies from one AMA to another
9 will likely require wheeling of water through the CAP canal. Presently no form of
10 wheeling agreement between CAWCD and the Bureau of Reclamation has been
11 approved. Therefore, for purposes of analyzing whether CAGRD has identified
12 sufficient supplies to meet its replenishment obligation for current members during
13 the 20 years following submission of the Plan, the Director has assumed that no
14 effluent will be available within the Pinal AMA during that period.

15 i. Based on the foregoing, the Director finds it reasonable to assume a
16 minimum total of 386,834 acre-feet per year of supplies will be available for purposes of
17 meeting CAGRD's 20-year replenishment obligation for current members in all three
18 AMAs. This amount includes CAGRD's presently "acquired" supplies in the amount of
19 36,534 acre-feet per year and supplies likely to be available for acquisition by CAGRD in
20 the amount of 350,300 acre-feet per year. The amount does not include any non-CAP
21 Colorado River water.

22 j. The supplies identified by CAGRD to meet its replenishment obligations for
23 current members during the 20 calendar years following submission of the Plan include
24 supplies which are located in specific AMAs ("AMA-specific supplies"), as well as supplies
25 which will be available to the entire CAP service area generally. CAGRD has identified
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sufficient AMA-specific supplies for purposes of meeting its 20-year replenishment obligation for current members in the Pinal AMA, as reflected in the table below:

	Phoenix AMA	Tucson AMA	Pinal AMA
Replenishment Obligation (in acre-feet) for Year 2034 for Current Members	52,200	8,000	2,500
“Acquired” LTSCs Available for Year 2034 (in acre-feet) per Table 4.1 of Plan	(4,009)	(1,444)	0
Additional LTSCs Available for Year 2034 (low estimate in acre-feet) ³	(6,600)	(1,100)	(3,300)
“Acquired” Effluent for Year 2034 (in acre-feet) per Table 4.1 of Plan	(2,400)	0	0
Additional Effluent Available for Year 2034 (low estimate in acre-feet)	(59,600)	0	0
“Acquired” AMA-specific CAP water for Year 2034 (in acre-feet) per Table 4.1 of Plan	(7,996)	0	0
Replenishment Obligation (in acre-feet) for Year 2034 for Current Members Not Met by AMA-specific supplies	none	5,456	none
Total available CAP water attributable to the CAP service area generally (low estimate in acre-feet)	(300,585) ⁴		
Unmet Replenishment Obligation (in acre-feet) for Year 2034 for Current Members	none	none	none

2. CAGR D has identified additional water supplies potentially available for its projected groundwater replenishment obligations in the Pinal AMA for the 100 calendar years following submission of the Plan for current members and potential members based on reasonable projections of real property and service areas that could qualify for membership in the 10 years following submission of the Plan.

a. CAGR D has estimated its replenishment obligations for current and potential members in all three AMAs in the 100 years following submission of the Plan, culminating

³ Divides 11,000 acre-feet of available LTSCs (low estimate) among the three AMAs by the rough proportion of total LTSCs currently in each respective AMA.

⁴ Represents 20,685 acre-feet of “acquired supplies” plus a low estimate of 279,700 acre-feet of additionally-available CAP water.

1 in 113,000 acre-feet of obligation for the year 2114. For the Pinal AMA only, CAGRDR has
2 estimated that its replenishment obligation for current and potential members will be 15,500
3 acre-feet for the year 2114.

4 b. With respect to the requirement that CAGRDR identify supplies sufficient to
5 meet its obligations for both current and potential members in the 100 years following
6 submission the Plan, CAGRDR is entitled to rely upon not only supplies which are currently
7 likely to be available for acquisition, but also supplies which *potentially* will be available
8 for acquisition in the future. As noted at Finding No. 1(g)(viii) above, Colorado River water
9 should not be viewed as currently available for purposes of meeting CAGRDR's 20-year
10 replenishment obligation for current members because no standard form of wheeling
11 agreement necessary to transport Colorado River water has been approved. However, the
12 Bureau of Reclamation may approve a standard form of wheeling agreement in the near
13 future. Therefore some supplies of Colorado River water may be included for purposes of
14 demonstrating sufficient potentially available supplies for purposes of meeting CAGRDR's
15 total replenishment obligation for current and potential members in the 100 years following
16 submission of the Plan.

17 c. CAGRDR's calculates that a minimum of 372,500 acre-feet per year of
18 combined LTSCs, effluent, CAP water, and Colorado River water is potentially available
19 for purposes of meeting its projected replenishment obligations for current and potential
20 members in all three AMAs in the 100 calendar years following submission of the Plan. The
21 Director finds that this calculation is reasonable.

22 d. Beyond the categories of supplies identified for purposes of meeting
23 CAGRDR's 20-year replenishment, CAGRDR has identified estimates of potentially available
24 imported groundwater and potentially available desalinated water. However, it appears that
25 not all of the volumes that CAGRDR estimates for these additional categories of supplies will
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1 be potentially available for replenishment purposes. For instance, CAGRD identifies
 2 Buckeye waterlogged groundwater as a potential source of desalinated water, *see* note 14 to
 3 Table 4.2 of the Plan. However, A.R.S. § 48-3771(C) prohibits the use of groundwater
 4 withdrawn from within an AMA for use for replenishment purposes. Nevertheless, the
 5 Director need not reach a determination with respect to whether these additional category
 6 of supplies are potentially available for purposes of satisfying CAGRD's 100-year
 7 replenishment obligation, as CAGRD has identified sufficient other supplies in satisfaction
 8 of the requirements of A.R.S. § 45-576.03(N)(1).

9 e. CAGRD's low estimate of 372,500 acre-feet per year of potentially available
 10 supplies of combined LTSCs, effluent, CAP water, and Colorado River water is more than
 11 sufficient to meet CAGRD's total 100-year replenishment obligation in all three AMAs, as
 12 shown in the table below:

13 Replenishment Obligation (in acre-feet) for Year 2114 for Current and Potential Members	84,200 Phoenix AMA 13,300 Tucson AMA 15,500 Pinal AMA 113,000 Total
14 Available Supplies for Year 2114 (low estimate)	(372,500)
15 Unmet Replenishment Obligation (in acre-feet) for Year 2114	none

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 18 f. CAGRD's demonstration that total available supplies exceed its total
 19 replenishment obligations for all three AMAs is adequate for purposes of identifying
 20 sufficient supplies for CAGRD's 100-year replenishment obligation in the Pinal AMA. As
 21 discussed above, a standard form of wheeling agreement permitting the movement of non-
 22 CAP water through the CAP may be approved in the near future. Therefore, currently
 23 "unavailable" mechanisms to transfer supplies for replenishment purposes, such as through
 24 recovery and movement of water through the CAP canal, potentially will be available in the
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1 future, making AMA-specific supplies available to the CAP service area generally.

2 3. The replenishment reserve target for the Pinal AMA was calculated as prescribed in
3 section 48-3772(E), and the CAGR D is developing a replenishment reserve in the Pinal AMA
4 pursuant to A.R.S. § 48-3772(E).

5 a. CAGR D has accrued 3,529 acre-feet of LTSCs in the Pinal AMA
6 Replenishment Reserve Sub-account and has identified an additional 318,695 acre-feet of
7 LTSCs dedicated by CAWCD for CAGR D replenishment reserve purposes. These amounts
8 greatly exceed CAGR D's replenishment reserve target for the Pinal AMA. In Appendix B
9 to the Plan, the CAGR D has included copies of annual reports filed with the Department
10 pursuant to A.R.S. § 48-3775(E), demonstrating CAGR D's historic acquisition and
11 crediting of LTSC's to each AMA's respective replenishment reserve sub-account. CAGR D
12 has also demonstrated that sufficient LTSCs are currently available to meet CAGR D's
13 combined reserve target amounts for all three AMAs, relying on a combination of existing
14 CAGR D reserve credits and LTSCs held by CAWCD which have been dedicated to
15 CAGR D for replenishment reserve purposes. A large number of "excess" credits are located
16 in the Pinal AMA Replenishment Reserve Sub-account. CAGR D states that it will evaluate
17 mechanisms by which to "transfer" or "exchange" LTSCs as necessary to meet the reserve
18 target amounts for the Phoenix and Tucson AMA. CAGR D states in the Plan that it will
19 also seek to obtain identified supplies over and above amounts necessary to fulfill its
20 replenishment obligations for purposes of meeting and maintaining the replenishment
21 reserve target amount for each AMA. In view of this information, CAGR D has
22 demonstrated that it is taking reasonable steps to develop the replenishment reserve in
23 accordance with A.R.S. § 48-3772(E).

24 4. The CAGR D has identified sufficient capacity at storage facilities and projects to be
25 used for replenishment purposes in the Pinal AMA during the 20 calendar years following the
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1 submission of the Plan.

2 a. CAGR D has identified 97,700 acre-feet of available annual storage in
3 groundwater savings facilities (“GSF”) in the Pinal AMA, which CAGR D calculated with
4 reference to historical usage of two GSFs in the Pinal AMA by non-CAGR D GSF partners.
5 These facilities provide more than sufficient capacity to be used by CAGR D for
6 replenishment purposes in the Pinal AMA for the next 20 years.

7 5. CAGR D has made a reasonable estimate of its projected replenishment obligations
8 in the Pinal AMA for the 100 calendar years following the submission of the Plan as required by
9 A.R.S. § 45-576.02(C)(2)(b).

10 a. Section 45-576.02(C)(2)(b) provides that the CAGR D shall make an
11 estimate of the CAGR D’s projected groundwater replenishment obligations for the 100
12 calendar years following submission of the Plan for current members and potential members
13 based on reasonable projections of real property and service areas that could qualify for
14 membership in the ten years following the submission of the Plan.

15 b. The Department reviewed CAGR D’s projections of real property and service
16 areas that could qualify for membership in the ten years following submission of the Plan.
17 The Department considered projected population for the three AMAs, projected supply and
18 demand for each water use sector, and projected water storage activities, to verify that the
19 CAGR D’s projections of its future replenishment obligations are reasonable. The
20 Department determined from its review that CAGR D’s projections are reasonable.

21 6. The following comments by MWCA are not within the scope of what the Director
22 may consider in connection with his review of the Plan pursuant to A.R.S. § 45-576.03(N): (1)
23 MCWA supports a “midterm adjustment” to the Plan “to allow better reaction to actual CAGR D
24 demand versus that forecasted and supports “the idea of performance benchmarks,” and (2) MCWA
25 “supports analysis and discussion of whether the ‘replenishment’ approach is sustainable over the
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1 long term.”

2 7. Pima County’s statement in support of legislation which permits voluntary
3 termination of member land status in order to decrease CAGR’s replenishment obligations is not
4 within the scope of what the Director may consider in connection with his review of the Plan
5 pursuant to A.R.S. § 45-576.03(N).

6 **IV. DECISION**

7 Based on the above findings, the Director hereby determines that the Plan is consistent with
8 achieving the management goal for the Pinal AMA.

9 **ORDER**

10 IT IS HEREBY ORDERED:

11 1. CAGR’s Plan of Operation is determined to be consistent with achieving the
12 management goal of the Pinal AMA.

13 2. Except as provided in A.R.S. § 45-576.03(R), this determination shall expire on the
14 date provided in A.R.S. § 45-576.03(M).

15 3. This Order shall become effective upon the date signed by the Director below.

16 GIVEN under my hand this 5th day of August, 2015.

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18 
19 Thomas Buschatzke
20 Director

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1 **COPY** of the foregoing Decision
2 and Order was sent by certified mail
3 this 6th day of August, 2015 to:

4 Dennis Rule
5 Manager, CAGR
6 Central Arizona Project
7 P.O. Box 43020
8 Phoenix, Arizona 85080

CMRRR#70060810000460242172

9 **COPY** of the foregoing Decision
10 and Order was sent via electronic mail
11 this 6th day of August, 2015 to the
12 following persons who submitted written
13 comments regarding the Plan:

14 Maureen R. George (mrglaw1@frontier.net)
15 *Attorney for Mohave County Water Authority*

16 Jackson Jenkins, Director (Jackson.Jenkins@pima.gov)
17 Pima County Regional Wastewater Reclamation Department

18 Margaret R. Gallogly (mgallogly@fclaw.com)
19 Fennemore Craig, P.C.
20 *Attorney for Douglas Ranch El Dorado, LLC;*
21 *DMB Associates, Inc.; Sunbelt Holdings and*
22 *Robson Communities*

23 Michele Van Quathem (MVQ@rcalaw.com)
24 Ryley Carlock & Applewhite
25 *Attorney for Pulte Home Corporation*

26 Connie Wilhelm, President & Executive Director (wilhelm@hbaca.org)
Home Builders Association of Central Arizona

David Godlewski, President (david@sahba.org)
Southern Arizona Homebuilders Association

Carol Ward-Morris, Assistant Director (cwardmorris@amwua.org)
Arizona Municipal Water Users Association

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COPY of the foregoing Decision and Order was sent via electronic mail this 6th day of August, 2015 to the following persons who attended a public hearing in this matter but did not submit comments regarding the Plan:

- Eric Braun (Eric.Braun@GilbertAZ.gov)
- Norm DeWeaver (norm_deweaver@rocketmail.com)
- V.C. Danos (vc.danospe@cox.net)
- Alan Dulaney (Alan.Dulaney@Peoriaaz.gov)
- Cliff Neal (cliff.neal@phoenix.gov)
- Mike Malano (mmalano@greenstonerp.com)
- Dan Offret (doffret@hotmail.com)
- Ann Stewart (astewart@fclaw.com)
- Colby Bowser (Colby.bowser1@pima.gov)
- Val Little (vlittle@email.arizona.edu)
- Philip Saletta (psaletta@orovalleyaz.gov)
- David Snider (davidsnider@cybertrails.com)
- Joe Singleton (jsingleton@pcwaa-az.org)
- Jim Hartdegen (Jim@JU85194.com)

