#### DRAFT Special Meeting of the Northern Delta-Mendota Region Management Committee

#### Wednesday, July 5, 2023, 2:00 PM

#### Patterson City Council Chambers, 1 Plaza Circle, Patterson, CA

#### Northern DM Region Management Committee Members and Alternates Present

Adam Scheuber, Alternate – Del Puerto Water District Vince Lucchesi, Member – Patterson Irrigation District Maria Encinas, Member – City of Patterson Bobby Pierce, Member – West Stanislaus Irrigation District Lacey McBride, Member – Merced County Christy McKinnon, Member – Stanislaus County

#### San Luis & Delta-Mendota Water Authority Representatives Present

John Brodie

#### Others Present via Zoom

Scott Petersen – San Luis & Delta-Mendota Water Authority Anona Dutton – EKI Environment & Water, Inc. Meredith Durant – EKI Environment & Water, Inc. Leslie Dumas – Woodard & Curran

#### 1. Call to Order/Roll Call

Bobby Pierce/West Stanislaus Irrigation District called the meeting to order at 2:03 PM.

#### 2. Opportunity for Public Comment

No public comment was provided.

#### 3. Committee to Review and Take Action on Consent Calendar, Pierce/Brodie

- a. Minutes for the May 25, 2023 Joint Meeting of the Northern and Central Delta-Mendota Region Management Committees and Central Delta-Mendota GSA
- b. Minutes for the June 14, 2023 Meeting of the Northern Delta-Mendota Region Management Committee
- c. Budget-to-Actual Report (through April 2023)

An updated Budget-to-Actual Report was not available for the meeting. Vince Lucchesi/Patterson Irrigation District provided the motion to approve Items 3a and 3b of the Consent Calendar and Maria Encinas/City of Patterson seconded. The motion was passed unanimously by those present.

# 4. Committee to Discuss Summary of the SGMA Agenda Item from the June 21, 2023 State Water Resources Control Board Meeting, Brodie

John Brodie/SLDMWA noted the Water Board Meeting Summary Memo prepared by Lauren Layne and included in the packet for this meeting. At this time, the Water Board has tentatively scheduled a probationary hearing for the Delta-Mendota Subbasin in September 2024. The Chowchilla Subbasin, submitted a revised GSP, so that may modify the Water Board's schedule

for conducting probationary hearings. Vince Lucchesi observed that other subbasins with current impacts such as subsidence and loss of domestic wells have been prioritized by DWR.

## 5. Report of the Northern Delta-Mendota Region Representative to the Coordination Committee, Lucchesi

Vince Lucchesi reviewed discussions during recent Coordination Committee meetings. As noted in the draft Memorandum of Agreement (MOA), a cost allocation based upon participation is being considered by the Committee. Under the existing Coordination Agreement, the coordinated expenditures are allocated with a 1/6 share to each of the 6 GSP groups. Each previous participant is evaluating its future participation and associated cost allocation. John Brodie noted that, depending upon the various entity decisions, the future Coordination Committee may have between 5 and 9 members, with costs allocated equally among the members. Maria Encinas noted a document recently issued by the Nature Conservancy which concluded that across the State, GSAs formed under SGMA tend to be comprised of irrigation districts and water districts, with relatively less participation by municipalities. There was some discussion at a recent Subbasin Coordination Committee meeting about municipalities within the Subbasin potentially sharing a seat on the future Coordination Committee.

Vince Lucchesi also noted that in response to comments from DWR, the Subbasin is revising the sustainable management criteria (SMC) identified in the GSP for subsidence to be in the form of an annual rate, not a total amount.

6. Review of the Existing Northern Delta-Mendota SGMA Services Activity Agreement, Pierce/Brodie

John Brodie noted the existing Northern Delta-Mendota SGMA Services Activity Agreement and the two Amendments are included in the meeting packet.

7. Review of the Existing Northern Management Committee Cost Share, Pierce/Brodie

Bobby Pierce and John Brodie noted that based upon the current Coordination Committee cost allocation formula and consultant proposal for revision of the GSP at an estimated budget of \$1.5 million, the cost to the Northern Management Committee could be 1/8 of \$1.5 million or \$187,500. The members noted that over the past three years, the Northern Management Committee has included \$100K in its annual budget to develop a reserve dedicated to preparation of the 5-Year GSP Update. John Brodie reported that the current Northern Management Committee reserve balance in the SLDMWA Fund 64 is \$300K, with a reserve balance of \$400K expected at the beginning of the next fiscal year (March 2024).

8. Committee to Consider Northern Delta-Mendota Region Representation on Subbasin Coordination Committee Under New Memorandum of Agreement and Confirm Existing Northern Delta-Mendota Region Management Committee Cost-Share (Fund 64), Brodie

In response to a request for guidance from Vince Lucchesi as the representative, the Committee members expressed their interest in continuing participation in the Coordination Committee. The new MOA and cost-share will become effective when the new GSP is adopted by the 23 GSAs. It was noted that preparation of future Annual Reports is not included in the Fund 63 budget augmentation request (Item 9). The number of future Coordination Committee members, and thus the associated per seat cost-share is not yet known.

Vince Lucchesi provided the motion for the Northern Region Management Committee to direct its representative on the Subbasin Coordination Committee to approve the new MOA and cost-share plan, with the option to reconsider if the Northern Region cost-share is projected to be

larger than 1/6. Lacey McBride/Merced County seconded. The motion was passed unanimously by those present.

9. Committee to Consider Directing the Northern Delta-Mendota Representative to the Subbasin Coordination Committee to Recommend Approval of a Consultant to Prepare a Single GSP for the Delta-Mendota-Subbasin, and Approve a \$1.5 Million Budget Augmentation to the Coordinated Budget (Fund 63) to Fund Consultant's Work, Brodie

John Brodie reported that only one consultant proposal was received in response to the Request for Proposal issued by the Subbasin Coordination Committee. The Committee discussed options for payment of its share of the GSP revision cost, noting that the reserve funds have been accumulated in Fund 64, and the GSP revision costs will be expended from Fund 63 (Coordinated). The Committee members expressed interest in using the accumulated reserve funds for their share of the GSP costs, and continuing to reserve funds for future preparation of a 5-year GSP Update.

Vince Lucchesi provided the motion for the Northern Region Management Committee to direct its representative to the Coordination Committee to approve the consultant proposal and approve a \$1.5 Million augmentation to Fund 63. Maria Encinas/City of Patterson seconded. The motion was passed unanimously by those present.

#### 10. Committee to Discuss 2023 GSP Implementation

- a. GSP Implementation Tracking Tool Progress, Dutton
- b. Summer 2023 Water Quality Sampling, Dutton

Anona Dutton/EKI noted that the GSAs are now both implementing the current GSP, while developing an updated single GSP for the Subbasin. She requested that the GSAs collect samples from their representative monitoring wells for analysis of both total dissolved solids and nitrate. This represents a change from the monitoring program proposed in the 2022 Amended GSP, in order to address concerns from the Department of Water Resources.

#### 11. Committee to Discuss Potential Additional Funding Opportunities

John Brodie noted that an updated list of Potential Funding Opportunities was inadvertently omitted from the meeting packet, but the updated list is available to in-person meeting participants.

#### 12. Next Steps

- SLDMWA will revise its internal schedule for future preparation of Budget-to-Actual reports to accommodate the Northern Region Management Committee meeting schedule.
- SLDMWA will evaluate potential mechanisms for use/transfer of previously reserved funds in Fund 64.
- SLDMWA will circulate the updated draft Memorandum of Agreement.
- This summer, the GSAs should plan to sample their assigned representative monitoring wells for total dissolved solids and nitrate.

#### 13. Reports Pursuant to Government Code 54954.2(a)(3)

No topics were discussed under this item.

### 14. Future Meetings

- a. Northern Region Management Committee
  - i. Wednesday, August 2, 2023 at 2:00 PM at Patterson City Hall
  - ii. Wednesday, September 6, 2023 at 2:00 PM at Patterson City Hall
  - iii. Future meetings at 2:00 PM on first Wednesday of each month
- b. Delta-Mendota Subbasin Coordination Committee
  - i. Monday, July 10, 2023 at 1:00 PM Grassland Water District
  - ii. Monday, July 24, 2023 at 1:00 PM
  - iii. Monday, August 14, 2023 at 1:00 PM
  - iv. Additional Coordination Committee meetings may be scheduled

#### 15. ADJOURNMENT

Vince Lucchesi adjourned the meeting at 3:10 PM.

#### MARCH 1, 2023 - FEBRUARY 29, 2024

# SUSTAINABLE GROUNDWATER MANAGEMENT ACT SERVICES AGREEMENT ACTIVITY AGREEMENTS BUDGET TO ACTUAL NORTHERN DELTA-MENDOTA REGION (FUND 64)

Report Period 3/1/23 - 5/31/23 SGMA 7/27/23

|                                 | Annual        | Paid/        |    | Amount   | % of Amt  | Expenses |
|---------------------------------|---------------|--------------|----|----------|-----------|----------|
| EXPENDITURES                    | Budget        | Expense      | R  | emaining | Remaining | Through  |
| <u>Legal:</u>                   |               |              |    |          |           |          |
| Baker Manock & Jensen           | \$<br>25,800  | \$<br>7,459  | \$ | 18,341   | 71%       | 4/4/23   |
| Other Professional Services:    |               |              |    |          |           |          |
| Contracts                       | \$<br>419,830 |              | \$ | 419,830  | 100%      |          |
| Other:                          |               |              |    |          |           |          |
| Executive Director              | \$<br>394     | \$<br>-      | \$ | 394      | 100%      |          |
| General Counsel                 | \$<br>5,652   | \$<br>-      | \$ | 5,652    | 100%      |          |
| Water Policy Director           | \$<br>8,236   | \$<br>675    | \$ | 7,561    | 92%       | 5/31/23  |
| Water Resources Program Manager | \$<br>70,200  | \$<br>9,673  | \$ | 60,527   | 86%       | 5/31/23  |
| Accounting                      | \$<br>2,808   | \$<br>49     | \$ | 2,759    | 98%       | 5/31/23  |
| Hydrotech 3                     | \$<br>23,712  | \$<br>3,441  | \$ | 20,271   | 85%       | 5/31/23  |
| License & Continuing Education  | \$<br>250     |              | \$ | 250      | 100%      |          |
| Conferences & Training          | \$<br>1,250   |              | \$ | 1,250    | 100%      |          |
| Travel/Mileage                  | \$<br>2,500   |              | \$ | 2,500    | 100%      |          |
| Group Meetings                  | \$<br>500     |              | \$ | 500      | 100%      |          |
| Telephone                       | \$<br>1,250   |              | \$ | 1,250    | 100%      |          |
| Total Expenditures              | \$<br>562,382 | \$<br>21,297 | \$ | 541,085  | 96%       |          |

#### MARCH 1, 2023 - FEBRUARY 29, 2024

# SUSTAINABLE GROUNDWATER MANAGEMENT ACT SERVICES AGREEMENT ACTIVITY AGREEMENTS BUDGET TO ACTUAL CENTRAL DELTA-MENDOTA REGION (FUND 65)

Report Period 3/1/23 - 5/31/23

| SGMA 7/27/23 EXPENDITURES       | Annual<br>Budget | Paid/<br>Expense | Amount<br>emaining | % of Amt<br>Remaining | Expenses<br>Through |
|---------------------------------|------------------|------------------|--------------------|-----------------------|---------------------|
| Legal:                          |                  | •                |                    | <u> </u>              |                     |
| Baker Manock & Jensen           | \$<br>25,800     | \$<br>9,661      | \$<br>16,139       | 63%                   |                     |
| Other Professional Services:    |                  |                  |                    |                       |                     |
| Contracts                       | \$<br>419,830    |                  | \$<br>419,830      | 100%                  |                     |
| Other:                          |                  |                  |                    |                       |                     |
| Executive Director              | \$<br>394        | \$<br>-          | \$<br>394          | 100%                  |                     |
| General Counsel                 | \$<br>5,652      | \$<br>-          | \$<br>5,652        | 100%                  |                     |
| Water Policy Director           | \$<br>8,236      | \$<br>675        | \$<br>7,561        | 92%                   | 4/30/23             |
| Water Resources Program Manager | \$<br>70,200     | \$<br>10,065     | \$<br>60,135       | 86%                   | 4/30/23             |
| Accounting                      | \$<br>2,808      | \$<br>49         | \$<br>2,759        | 98%                   | 3/31/23             |
| Hydrotech 3.                    | \$<br>23,712     | \$<br>3,441      | \$<br>20,271       | 85%                   | 4/30/23             |
| License & Continuing Education  | \$<br>250        |                  | \$<br>250          | 100%                  |                     |
| Conferences & Training          | \$<br>1,250      |                  | \$<br>1,250        | 100%                  |                     |
| Travel/Mileage                  | \$<br>2,500      |                  | \$<br>2,500        | 100%                  |                     |
| Group Meetings                  | \$<br>500        |                  | \$<br>500          | 100%                  |                     |
| Telephone                       | \$<br>1,250      |                  | \$<br>1,250        | 100%                  |                     |
| Total Expenditures              | \$<br>562,382    | \$<br>23,891     | \$<br>538,491      | 96%                   |                     |

#### MARCH 1, 2023 - FEBRUARY 29, 2024

# SGMA ACTIVITIES - COORDINATED COST-SHARE AGREEMENT ACTIVITY AGREEMENTS BUDGET TO ACTUAL COORDINATED (FUND 63)

Report Period 3/1/23 - 5/31/23 Coordination Meeting 7/10/23

| <u>-</u>                                   | Annual        | Paid/        |    | Amount   | % of Amt  | Expenses |
|--|---------------|--------------|----|----------|-----------|----------|
| EXPENDITURES                               | Budget        | Expense      | R  | emaining | Remaining | Through  |
| Legal:                                     |               |              |    |          |           |          |
| Baker Manock & Jensen                      | \$<br>30,960  | \$<br>9,525  | \$ | 21,436   | 69%       |          |
| Other Professional Services:               |               |              |    |          |           |          |
| GSP Implementation Contracts               |               |              |    |          |           |          |
| Coordinated Annual Reports Activities      |               |              |    |          |           |          |
| (Common Chapter, Water Level Contouring)   | \$<br>146,093 |              | \$ | 146,093  | 100%      |          |
| DMS Hosting, Augmentation and Support      | \$<br>11,367  |              | \$ | 11,367   | 100%      |          |
| Staff Augmentation Support (EKI)           | \$<br>65,000  |              | \$ | 65,000   | 100%      |          |
| DAC Outreach and Coordination              | \$<br>30,000  |              | \$ | 30,000   | 100%      |          |
| SGMA Implementation Grant Round 1 SPA (A9) | \$<br>75,560  |              | \$ | 75,560   | 100%      |          |
| SGMA Implementation Grant Round 2 SPA (B0) | \$<br>75,560  |              | \$ | 75,560   | 100%      |          |
| Other:                                     |               |              |    |          |           |          |
| Executive Director                         | \$<br>2,364   | \$<br>-      | \$ | 2,364    | 100%      |          |
| General Counsel                            | \$<br>4,082   | \$<br>-      | \$ | 4,082    | 100%      |          |
| Water Policy Director                      | \$<br>7,100   | \$<br>5,135  | \$ | 1,965    | 28%       | 5/31/23  |
| Water Resources Program Manager            | \$<br>62,400  | \$<br>15,551 | \$ | 46,849   | 75%       | 5/31/23  |
| Accounting                                 | \$<br>2,916   | \$<br>250    | \$ | 2,666    | 91%       | 5/31/23  |
| License & Continuing Education             | \$<br>500     |              | \$ | 500      | 100%      |          |
| Conferences & Training                     | \$<br>1,000   |              | \$ | 1,000    | 100%      |          |
| Travel/Mileage                             | \$<br>2,500   |              | \$ | 2,500    | 100%      |          |
| Group Meetings                             | \$<br>1,000   |              | \$ | 1,000    | 100%      |          |
| Telephone                                  | \$<br>500     |              | \$ | 500      | 100%      |          |
| Software                                   | \$<br>780     |              | \$ | 780      | 100%      |          |
| Equipment and Tools                        | \$<br>5,650   |              | \$ | 5,650    | 100%      |          |
| Total Expenditures                         | \$<br>525,332 | \$<br>30,460 | \$ | 494,872  | 94%       |          |

|    | А                     | В        | С                                       |    |              | D  |            | E        | F          |          |          |
|----|-----------------------|----------|---|----|--------------|----|------------|----------|------------|----------|----------|
| 1  | Grant Summary R       | epo      |   |    |              |    |            |          |            |          | -        |
| Ė  |                       | ·PO      | -                                       | I  |              | Tł | rough FY   |          |            |          |          |
| 2  | IRWM                  | Pro      | oosition 1 Round                        | 11 |              |    | 22         | FY       | 2023       | FY       | 2024     |
| 3  |                       |          | ant Amount                              |    | nount Paid   |    | _          | - 1      |            | <u> </u> |          |
| 4  | Administration        | \$       | 10,000.00                               | \$ | 9,000.00     | \$ | 9,000.00   |          |            |          |          |
| 5  | City of Huron         | \$       | 650,000.00                              | \$ | 649,974.57   | -  | 649,974.57 |          |            |          |          |
| 6  | NVRRWP-Turlock        | \$       | 45,000.00                               | \$ | 45,000.00    |    | 45,000.00  |          |            |          |          |
| 7  |                       | \$       | •                                       |    |              | Ą  | 45,000.00  | <u>ر</u> | 720 227 60 |          |          |
|    | WSID Pumping Plant    | \$       | 809,264.00                              | \$ | 728,337.60   | ۲  | 404,632.00 | \$       | 728,337.60 |          |          |
| 8  | Orestimba Creek       |          | 809,264.00                              | \$ | 404,632.00   |    | •          | ۲        | 157.010.06 | ,        | C 170 F0 |
| 9  | Broadview Aquifer     | \$       | 809,263.00                              | \$ | 286,000.00   | \$ | 122,800.45 | \$       | 157,019.96 | \$       | 6,179.59 |
| 10 | Total                 | \$       | 3,132,791.00                            | >  | 2,122,944.17 |    |            |          |            |          |          |
| 11 |                       |          |   |    |              |    |            |          |            |          |          |
| 12 |                       |          | ount Remaining                          | _  |              |    |            |          |            |          |          |
|    | Administration        | \$       | 1,000.00                                | \$ | -            |    |            |          |            |          |          |
|    | City of Huron         | \$       | 25.43                                   | \$ | -            |    |            |          |            |          |          |
| 15 | NVRRP-Turlock         | \$       | -                                       | \$ | -            |    |            |          |            |          |          |
| 16 | WSID Pumping Plant    | \$       | 80,926.40                               | \$ | -            |    |            |          |            |          |          |
| 17 | Orestimba Creek       | \$       | 404,632.00                              | \$ | -            |    |            |          |            |          |          |
| 18 | Broadview Aquifer     | \$       | 523,263.00                              | \$ |              |    |            |          |            |          |          |
| 19 | Total                 | \$       | 1,009,846.83                            | \$ | =            |    |            |          |            |          |          |
| 20 |                       |          |   |    |              |    |            |          |            |          |          |
| 21 |                       | SGN      | IA Implementati                         | on | Round 1      |    |            |          |            |          |          |
| 22 | Amount Paid           | Gra      | nt Amount                               | Αm | nount Paid   |    |            |          |            |          |          |
| 23 | C1-LB Creek R&R       | \$       | 2,000,000.00                            | \$ | -            |    |            |          |            |          |          |
|    | C2-Floodwater         |          |   |    |              |    |            |          |            |          |          |
| 24 | Capture               | \$       | 1,000,000.00                            | \$ | -            |    |            |          |            |          |          |
|    | C3-Chowchilla         | 7        | _,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 7  |              |    |            |          |            |          |          |
| 25 | Bypass Recharge       | \$       | 1,000,000.00                            | \$ | _            |    |            |          |            |          |          |
|    | C4-WSID Lateral       | 7        | 1,000,000.00                            | 7  |              |    |            |          |            |          |          |
| 26 | Reconstruction        | \$       | 228,030.00                              | \$ |              |    |            |          |            |          |          |
| 20 | C5-North Valley       | ڔ        | 228,030.00                              | ۲  |              |    |            |          |            |          |          |
| 27 | RRWP                  | ۲        | 272 270 00                              | \$ |              |    |            |          |            |          |          |
| 21 |                       | \$       | 272,270.00                              | Ş  | -            |    |            |          |            |          |          |
| 20 | C6-Farmers Water      | _        | 704 200 00                              | _  | 47.057.00    | _  | 47.067.00  | _        |            |          |          |
|    | Bank                  | \$       | 791,300.00                              | \$ | 17,967.90    | \$ | 17,967.90  | \$       | -          |          |          |
| 29 | C7-LBC Res. Ops.      | \$       | 600,000.00                              | \$ | -            |    |            |          |            |          |          |
|    | C-8 Data Gaps &       |          |   |    |              |    |            |          |            |          |          |
| 30 | Monitoring            | \$       | 929,400.00                              | \$ | -            |    |            |          |            |          |          |
|    | C9-GSP Revisions &    |          |   |    |              |    |            |          |            |          |          |
| 31 | Updates               | \$       | 561,500.00                              | \$ | 252,170.43   | \$ | 252,170.43 | \$       | -          |          |          |
| 32 | C10-Public Outreach   | \$       | 172,500.00                              | \$ | 91,095.85    | \$ | 91,095.85  | \$       | -          |          |          |
|    | C11-Studies &         |          | _                                       |    | _            |    |            |          |            |          | _        |
| 33 | Investigations        | \$       | 45,000.00                               | \$ |              |    |            |          |            |          |          |
| 34 | Total                 | \$       | 7,600,000.00                            | \$ | 361,234.18   | \$ | 361,234.18 | \$       | -          | \$       | -        |
| 35 |                       |          |   |    |              |    |            |          |            |          |          |
| 36 |                       | Amo      | ount Remaining                          |    |              |    |            |          |            |          |          |
|    | C1-LB Creek R&R       | \$       | 2,000,000.00                            | \$ | -            |    |            |          |            |          |          |
|    | C2-Floodwater         |          |   |    |              |    |            |          |            |          |          |
| 38 | Capture               | \$       | 1,000,000.00                            | \$ | -            |    |            |          |            |          |          |
|    | C3-Chowchilla         |          |   | Ė  |              |    |            |          |            |          |          |
| 39 | Bypass Recharge       | \$       | 1,000,000.00                            | \$ | _            |    |            |          |            |          |          |
|    | C4-WSID Lateral       | 7        | 2,000,000.00                            | ۲  |              |    |            |          |            | <u> </u> |          |
| 40 | Reconstruction        | \$       | 228,030.00                              | \$ | _            |    |            |          |            |          |          |
|    | C5-orth Val RRWP      | \$       | 272,270.00                              | \$ | <u>-</u>     |    |            |          |            | -        |          |
| 41 | C6-Farmers Water      | ڔ        | 212,210.00                              | Ç  | -            |    |            |          |            |          |          |
| 42 |                       | ۲        | 772 222 42                              | ,  |              |    |            |          |            |          |          |
|    | Bank                  | \$       | 773,332.10                              | \$ | -            |    |            |          |            |          |          |
| 43 | C7-LBC Res. Ops.      | \$       | 600,000.00                              | \$ | -            |    |            |          |            |          |          |
|    | C8-Data Gaps and      |          |   |    |              |    |            |          |            |          |          |
| 44 | Monitoring            | \$       | 929,400.00                              | \$ | -            |    |            |          |            |          |          |
|    | C9-GSP Revisions &    |          |   |    |              |    |            |          |            |          |          |
|    | Updates               | \$       | 309,329.57                              | \$ | -            |    |            |          |            |          |          |
| 46 | C10-Public Outreach   | \$       | 81,404.15                               | \$ | -            |    |            |          |            |          |          |
|    | C11-Studies & Investi | \$       | 45,000.00                               | \$ | -            |    |            |          |            |          |          |
| 48 | Total                 | \$       | 7,238,765.82                            | \$ | -            |    |            |          |            |          |          |
|    |                       | <u> </u> |   | ·  |              |    |            |          |            |          |          |

|                    |             | Individu              | al | GSP Summar   | y  |              |            |    |              |
|--------------------|-------------|-----------------------|----|--------------|----|--------------|------------|----|--------------|
| GSP Group          | Component # | Budget Category       | G  | rant Amount  | In | voice Amount | Invoice #  | В  | alance       |
| Aliso WD           | C 3         | C: Implementation     | \$ | 1,000,000.00 |    |              |            | \$ | 1,000,000.00 |
| Aliso WD           | C 8         | C: Implementation     | \$ | 134,400.00   |    |              |            | \$ | 134,400.00   |
| Aliso WD           | C 9         | B: Env., Eng., Design | \$ | 50,000.00    | \$ | 33,634.97    | Through 3  | \$ | 16,365.03    |
| Aliso WD           | C 11        | B: Env., Eng., Design | \$ | 45,000.00    |    |              |            | \$ | 45,000.00    |
| Subtotal           |             |                       | \$ | 1,229,400.00 | \$ | 33,634.97    |            | \$ | 1,195,765.03 |
| Farmers WD         | C 6         | B: Env., Eng., Design | \$ | 125,000.00   | \$ | 38,346.65    | Through 3  | \$ | 86,653.35    |
| Farmers WD         | C 6         | C: Implementation     | \$ | 616,000.00   | \$ | 9,936.25     | Through 3  | \$ | 606,063.75   |
| Farmers WD         | C 6         | D: Monitoring         | \$ | 50,000.00    | \$ | -            |            | \$ | 50,000.00    |
| Farmers WD         | C 8         | C: Implementation     | \$ | 50,000.00    | \$ | -            |            | \$ | 50,000.00    |
| Farmers WD         | C 8         | D: Monitoring         | \$ | 25,000.00    | \$ | -            |            | \$ | 25,000.00    |
| Farmers WD         | C 9         | B: Env., Eng., Design | \$ | 125,000.00   | \$ | 64,843.42    | Through 3  | \$ | 60,156.58    |
| Farmers WD         | C 9         | E: Outreach           | \$ | 50,000.00    | \$ | -            |            | \$ | 50,000.00    |
| Farmers WD         | C 10        | E: Outreach           | \$ | 40,000.00    | \$ | 37,109.06    | Through 3  | \$ | 2,890.94     |
| Subtotal           |             |                       | \$ | 1,081,000.00 | \$ | 150,235.38   |            | \$ | 930,764.62   |
| Fresno County      | C 8         | B: Env., Eng., Design | \$ | 10,000.00    | \$ | 2,805.00     |            | \$ | 7,195.00     |
| Fresno County      | C 8         | C: Implementation     | \$ | 70,000.00    | \$ | -            |            | \$ | 70,000.00    |
| Fresno County      | C 9         | B: Env., Eng., Design | \$ | 124,000.00   | \$ | 63,587.24    | Through 3  | \$ | 60,412.76    |
| Fresno County      | C 9         | E: Outreach           | \$ | 50,000.00    | \$ | -            |            | \$ | 50,000.00    |
| Fresno County      | C 10        | E: Outreach           | \$ | 25,000.00    | \$ | 36,451.42    | Through 3  | \$ | (11,451.42)  |
| Subtotal           |             |                       | \$ | 279,000.00   | \$ | 102,843.66   |            | \$ | 176,156.34   |
| Grasslands WD      | C 2         | B: Env., Eng., Design | \$ | 200,000.00   |    | . ,          |            | \$ | 200,000.00   |
| Grasslands WD      | C 2         | C: Implementation     | \$ | 800,000.00   |    |              |            | \$ | 800,000.00   |
| Grasslands WD      | C 9         | B: Env., Eng., Design | \$ | 112,500.00   | \$ | 91,652.84    | Through 3  | \$ | 20,847.16    |
| Grasslands WD      | C 10        | E: Outreach           | \$ | 25,000.00    | \$ | •            | Through 3  | \$ | 8,867.19     |
| Subtotal           |             |                       | \$ | 1,137,500.00 | \$ | 107,785.65   |            | \$ | 1,029,714.35 |
| Northern & Central | C 1         | C: Implementation     | \$ | 1,000,000.00 |    | . ,          |            | \$ | 1,000,000.00 |
| Northern & Central | C 4         | B: Env., Eng., Design | \$ | 228,030.00   |    |              |            | \$ | 228,030.00   |
| Northern & Central | C 5         | C: Implementation     | \$ | 272,000.00   |    |              |            | \$ | 272,000.00   |
| Northern & Central | C 7         | C: Implementation     | \$ | 300,000.00   |    |              |            | \$ | 300,000.00   |
| Subtotal           |             |                       | \$ | 1,800,030.00 | \$ | -            |            | \$ | 1,800,030.00 |
| SJREC              | C 1         | C: Implementation     | \$ | 1,000,000.00 | -  |              |            | \$ | 1,000,000.00 |
| SJREC              | C 7         | C: Implementation     | \$ | 300,000.00   |    |              |            | \$ | 300,000.00   |
| SJREC              | C 9         | B: Env., Eng., Design | \$ | 50,000.00    | \$ | 30,017.00    | Through 3  | \$ | 19,983.00    |
| SJREC              | C 10        | E: Outreach           | \$ | 82,500.00    |    | 28,575.81    | _          | \$ | 53,924.19    |
| Subtotal           |             |                       | \$ | 1,432,500.00 | \$ | 58,592.81    |            |    | 1,373,907.19 |
| Subbasin           | C 8         | B: Env., Eng., Design | \$ | 98,400.00    | 7  | ,            |            | \$ | 98,400.00    |
| Subbasin           | C 8         | C: Implementation     | \$ | 229,200.00   |    |              |            | \$ | 229,200.00   |
| Subbasin           | C 8         | D: Monitoring         | \$ | 216,800.00   |    |              |            | \$ | 216,800.00   |
| Subbasin           | C 8         | E: Outreach           | \$ | 95,600.00    |    |              |            | \$ | 95,600.00    |
| Subbasin           | C9          | B: Env., Eng., Design | 7  | 22,000.00    | \$ | 18,585.10    | Through 1  | 7  | 11,000.30    |
| Subbasin           | C9          | E: Outreach           |    |              | 7  | 20,000.10    |            |    |              |
| Subbasin           | C10         | E: Outreach           |    |              | \$ | 64,531.24    | Through 1  |    |              |
| Subtotal           |             |                       | \$ | 640,000.00   | \$ | 83,116.34    | 0 4 6 11 1 | \$ | 556,883.66   |
| Total              |             |                       | \$ | 7,599,430.00 | \$ | 453,092.47   |            |    | 7,146,337.53 |
| 1 Utai             |             |                       | φ  | 1,373,730.00 | Ą  | 733,032.47   |            | φ  | 7,170,007.00 |

#### SLDMWA-EKI ENVIRONMENT & WATER, INC.

#### AGREEMENT FOR PROFESSIONAL SERVICES

#### TASK ORDER F24-AA63-007

Completing the Response to the Inadequate Determination Issued by The California Department of Water Resources for the Delta-Mendota Subbasin Groundwater Sustainability Plans

#### **Detailed Scope of Work**

#### TASK 1 – Data Compilation, Review, and Analysis

EKI will compile and review relevant documents files, data, and information necessary to develop an accepted response to the inadequate determination. This task includes compilation and review of data from the Subbasin's Data Management System pertaining to groundwater levels, groundwater quality, and land subsidence; review and analysis of key parts of the revised Common chapter including the SMC and Water Budget sections; and, development of a summary of data that will be used as part of the response to DWR's Inadequate Determination.

#### TASK 2 – Describe Current Groundwater Conditions

EKI will develop an updated subbasin-wide groundwater conditions assessment (GCA) consistent with the requirements of 23-CCR § 354.16 and the Periodic Evaluation (as currently understood for 23-CCR § 356.4)

#### Subtask 2.A: Develop Updated Assessment of Basin Groundwater Conditions

This task includes review of data compiled in Task 1 and submitted with the Subbasin's Annual Reports to assess the Subbasin's performance against revised SMCs, and the evaluation of progress in the implementation of projects and management actions.

# Subtask 2.B: Prepare Updated Descriptions of Projects and Management Actions Planning, Implementation, and Benefits

This task includes the compilation and summarization of available information for projects and management actions identified in the revised subbasin GSPs, and consultation with GSAs in the development and refinement of a tiered implementation plan for an updated list of projects and management actions.

#### Subtask 2.C: Conduct Quantitative Projection of Projects and Management Action Benefits

This task includes use of the model (Task 4) to analyze quantitative effects of a specific group of projects and management actions on current and projected groundwater conditions. This analysis will demonstrate how projects and management actions contribute to achieving sustainability in the subbasin by 2040.

SLDMWA – EKI Task Order F24-AA63-007 Page 1

#### TASK 3 – Subbasin Monitoring Network

This task will include EKI conducting a review and analysis of all existing monitoring networks and protocols, identification of areas needing improvement (both spatially and procedureally), and develop recommended revision to the network in Coordination with the Coordination Committee and Technical Working Group

#### Task 4 – Analysis of New Information

This task includes building from recently completed efforts to refine and complete the technical analyses related to the SMCs, water budget, and other key GSP elements based on feedback from State Water Resources Control Board staff and/or DWR staff.

#### Subtask 4.A: Further Analysis and Potential Revisions to SMCs

This task includes completion of SMC updates for all applicable sustainability indicators, with the new information consistent with the GSP data roadmap developed under Task 1. SMCs will be applied at the specific sites in the refined representative monitoring network and used to support the groundwater conditions assessment, analyses of impacts to beneficial uses and users and other sustainability indicators, and other efforts.

#### Subtask 4.B: Further Analysis and Update to the Subbasin-wide Water Budget

This task includes summarizing preliminary water budget results at the subbasin scale for representative time periods and for water budget components articulated in 23-CCR § 354.18 for each principal aquifer. This task also includes development of an estimate of long-term sustainable yield for each principal aquifer.

#### Task 5 – Revision of Plan Elements

This task includes summarization of information included in the six revised GSPs and Common Chapter, summarization of outcomes and revisions resulting from other tasks in this scope of work, and preparation of a single, updated GSP that will be submitted to the State Water Resources Control Board for review and approval.

#### Subtask 5.A: Revision of Plan Area and Basin Setting Chapters

This task includes the use of relevant information from Tasks 1-4, Subbasin Annual Reports, and any new information gathered to update and revise the Plan Area Chapter. This task also includes revising the Basin Setting Chapter to include updates and edits to the Hydrogeologic Conceptual Model and Groundwater Conditions assessments. This task will also include a clear explanation and justification for the calculation of change in storage and discuss how continued loss of storage and groundwater elevation declines will affect domestic drinking water wells or other beneficial uses and users of groundwater.

### Subtask 5.B: Revision of Water Budget and Sustainable Yield Sections

This task includes a comprehensive discussion Sustainable Yield estimation as conducted under

Task 4 and an evaluation of historical overdraft. This discussion will include GSAs plans for overdraft mitigation and sustainable management of the Subbasin.

#### Subtask 5.C: Revision of Sustainable Management Criteria Chapter

This task includes expanding on work conducted in Tasks 2-4 and include corresponding appendices on SMC development in the Subbasin.

#### Subtask 5.D: Revision of Projects and Management Actions and Plan Implementation Chapters

This task will include information from the revised Common Chapter and six GSPs updated to demonstrate the Subbasin's consistent management under the single GSP and adopted Memorandum of Agreement. This task will also include a detailed implementation schedule of the prioritized projects and management actions, monitoring network refinements, and plans to address data gaps.

#### Subtask 5.E: Revision of Executive Summary and Introduction Chapter

This task includes the revision of Introduction based on recent data and updates to the Subbasin's governance structure under a single GSP and reports on stakeholder outreach and engagement activities. This task will also include development of the Executive Summary with the objective of providing an abstract of key information through concise and simple language.

#### Task 6 – Description of Other Information

This task includes additional required items for the periodic evaluation not covered elsewhere: a description of relevant GSP implementation actions taken by GSAs; a summary of coordination with GSAs and land-use entities both inter and intra basin; a description of enforcement or legal actions taken by GSAs to achieve sustainability; and, a description of proposed or completed GSP amendments.

#### Task 7 – Project Management and Coordination

This task includes facilitating coordination efforts during the course of completing the project and technical project management. This task includes preaparation for and participation in Coordination Committee and Technical Working Group meetings, meetings with outside parties including the State Water Resources Control Board and DWR, and from adjacent hydrologically connected basins.

Online Document Accessibility: Consultant will provide electronic copies of documents and materials designated for public access on the Authority's public website consistent with Web Content Accessibility Guidelines (WCAG) 2 Level AA Conformance and/or current state and federal standards for accessibility. If Consultant has any question as to whether a deliverable is subject to these requirements, Consultant shall confirm with the Authority whether the deliverable is anticipated to be posted to the Authority website. Consultant may reference the California Department of Technology's Web Accessibility Assessment Checklist at SIMM 25 IT Accessibility Resource Guide (ca.gov) to help Consultant comply with State and WCAG standards and

requirements. Consultant should ensure documents and materials created for the Authority are compatible with most major Internet browsers, including Chrome, Firefox, and Safari. The Authority reserves the right to return to Consultant for correction any deliverable that is required to be website accessible, and that the Authority determines not be compliance, in accordance with these standards. Any such modification shall be done at Consultant's cost and without further charge to the Authority.

**Payment:** All properly invoice amounts shall be paid not more than sixty (60) days after delivery of an invoice. Disputed invoices shall be returned to Consultant within ten (10) working days of receipt.

**Additional Agreement Provision:** EKI will adhere to the following contract provision, now being added into all SGMA-related Professional Services Agreements:

This is a "Not to Exceed" Task Order. EKI will not exceed its submitted budget estimate for the scope of work and tasks as detailed below without prior approval from SLDMWA. EKI may request to amend the submitted budget of \$1,401,052.00 prior to the end of the fiscal year. If such a request is made, EKI agrees to reimburse reasonable expenses incurred by SLDMWA in preparation of the Task Order Budget Amendment, including but not limited to: staff time, legal review, and scheduling and conducting special meetings, and consultations with Local Project Sponsors and GSAs.

**Basis of Payment:** Time and materials

**Budget Maximum:** Not to exceed \$1,401,052.00

Estimate of Time Schedule: July 24, 2023 – February 29, 2024

**SLDMWA Project Lead:** John Brodie, john.brodie@sldmwa.org

Consultant Project Lead: Anona Dutton, adutton@ekiconsult.com

**Special Instructions**: (1) All invoices should be sent to Project Lead John Brodie and Felicia Luna <u>felicia.luna@sldmwa.org</u> pursuant to Article 6 of Exhibit B to the Agreement; (2) All invoices shall

reference: "Task Order F24-AA63-007"



### **MEMORANDUM**

TO: Northern Delta-Mendota Region Management Committee Members and

Alternates

FROM: John Brodie, Water Resources Program Manager

DATE: August 2, 2023

RE: Overview of Pros and Cons for Employing a Single Subbasin-wide Model for the

Subbasin GSP and Groundwater Management Decisions

#### **BACKGROUND**

As a part of the effort to achieve approved status for a single Delta-Mendota Subbasin GSP, the Coordination Committee has been discussing the utility and efficacy of the CVHM2-SJB Groundwater model. It was requested by the Northern Region representative to the Coordination Committee that staff provide a memo for the Northern Region Management Committee that gives a high-level overview of the benefits and challenges for using the model for the Subbasin.

#### **ISSUES FOR DECISION**

There is no issue for decision. As requested, this memo is provided as information and background.

#### **RECOMMENDATION**

Staff makes no recommendation at this time.

#### **ANALYSIS**

The decision to use the CVHM2-SJB model is both easy and complex. For easy, previous attempts to apply a model using different methods across six GSP groups failed twice. Notably, the first deficiency identified by DWR spelled out inconsistency in the data and methodologies used for water budget revisions, and that the GSPs relied on separate water budgets and used a variety of modeling approaches.

Using the CVHM2-SJB model addresses that deficiency. It's a DWR-approved model. Subbasin GSAs worked with USBR and USGS to provide better data and assumptions to improve and update the model, which is currently undergoing peer review and should be available for use in revising the GSP to meet SWRCB approval. Using the model, the estimated basin-wide water budgets generally align with those previously submitted with the Common Chapter.

There are some discrepancies and potential areas of concern. First, data availability. Some GSAs have substantial data to inform the model, while other GSAs have minimal data. Sub-regions in the water budget don't always match GSA or basin boundaries. Though the model is calibrated to industry standards, simulation accuracy in groundwater levels varies within the basin.

While overall the model aligns with water budgets in the Common Chapter, water budget components for GSAs and aquifer-specific budgets can differ significantly due to different assumptions from the different GSPs. For example, the model allocates groundwater pumping at approximately 55%/45% for the upper and lower aquifer respectively. The Common Chapter assumes approximately 90%/10% upper to lower aquifer. Also, a comparison of the WY 2019 Annual Report reported water use and modeled surface water delivery reveals a potential underestimation of surface water supply in the model.

While the model may be a good starting point to get the Subbasin's GSP to approved status, more data may be needed before it is a useful groundwater management tool in all Delta-Mendota Subbasin GSAs.

#### **BUDGET**

Some work has already been done on the model to fine tune it to the Delta-Mendota Subbasin. However, more work is likely needed before it can be an effective management tool. There is grant funding available through the USBR WaterSMART Applied Science Grant Program, which has a mid-October deadline.

#### July 5, 2023

#### Northern Delta-Mendota Region Management Committee Fund 64 Draft Cost Share Split Example **Single GSP Preparation Costs**

| DIVISION 1  1. Banta-Carbona ID  2. City of Tracy  3. Del Puerto Water District (DPWD 52,570 ac + Oak Flat 4,503 ac)  3A. Del Puerto (92% of DPWD GSA Cost)                            | TOTAL SGMA  \$ 212,500  \$ - \$ 68,380  \$ 23,537 \$ 2,047 \$ 25,584 |
|--|--|
| Allocate   Region   Acreage  | \$GMA<br>\$ 212,500<br>\$ -<br>\$ 68,380<br>\$ 23,537<br>\$ 2,047    |
| DIVISION 1  1. Banta-Carbona ID  2. City of Tracy  3. Del Puerto Water District (DPWD 52,570 ac + Oak Flat 4,503 ac)  3A. Del Puerto (92% of DPWD GSA Cost)                            | \$ 212,500<br>\$ -<br>\$ 68,380<br>\$ 23,537<br>\$ 2,047             |
| DIVISION 1  1. Banta-Carbona ID  2. City of Tracy  3. Del Puerto Water District (DPWD 52,570 ac + Oak Flat 4,503 ac)  3A. Del Puerto (92% of DPWD GSA Cost)                            | \$ -<br>\$ 68,380<br>\$ 23,537<br>\$ 2,047                           |
| 1. Banta-Carbona ID 0.00000% 2 2. City of Tracy 0.00000% 3 3. Del Puerto Water District 57,073 35.61387% (DPWD 52,570 ac + Oak Flat 4,503 ac) 3A. Del Puerto (92% of DPWD GSA Cost) \$ | \$ -<br>\$ 68,380<br>\$ 23,537<br>\$ 2,047                           |
| 1. Banta-Carbona ID 0.00000% 2 2. City of Tracy 0.00000% 3 3. Del Puerto Water District 57,073 35.61387% (DPWD 52,570 ac + Oak Flat 4,503 ac) 3A. Del Puerto (92% of DPWD GSA Cost) \$ | \$ -<br>\$ 68,380<br>\$ 23,537<br>\$ 2,047                           |
| 2. City of Tracy 3. Del Puerto Water District (DPWD 52,570 ac + Oak Flat 4,503 ac)  3A. Del Puerto (92% of DPWD GSA Cost)  9.000000% 57,073 35.61387% 58                               | \$ -<br>\$ 68,380<br>\$ 23,537<br>\$ 2,047                           |
| 3. Del Puerto Water District 57,073 35.61387% (DPWD 52,570 ac + Oak Flat 4,503 ac)  3A. Del Puerto (92% of DPWD GSA Cost) \$   | \$ 68,380<br>\$ 23,537<br>\$ 2,047                                   |
| 3A. Del Puerto (92% of DPWD GSA Cost)  | \$ 2,047   |
|  | \$ 2,047   |
| OD OUT FULL (ON CORPUTED COALOUR)  |  |
|  | \$ 25,584  |
| 3  |  |
| (PID 13,067 ac + Twin Oaks 2,629 ac)   |  |
|  | \$ -   |
| · ·  | \$ -<br>\$ 31,634  |
| (WSID 21,299 ac + Grayson/Westley 246 ac)  | \$ 31,634  |
| (, = = .,=== =, =,   |  |
| ,  | \$ 125,598   |
| DIVISION 2  1 Panoche Water District 0.00000%  | ¢  |
|  | \$ -<br>\$ -   |
|  | \$ -   |
| 4. Charleston Drainage District 0.00000%   | \$ -   |
| ·  | \$ -   |
| · · · · · · · · · · · · · · · · · · ·  | \$ -<br>\$ -   |
| DIVISION 3   | Ψ -  |
| Central California Irrigation District**     0.00000%  | \$ -   |
| · ·  | \$ -   |
|  | \$ -<br>\$ -   |
|  | \$ -   |
|  | \$ -   |
|  | \$ -   |
| DIVISION 4  1. San Benito County Water District  | \$ -   |
| · · · · · · · · · · · · · · · · · · ·  | \$ -   |
|  | \$ -   |
| DIVISION 5   |  |
|  | \$ -<br>\$ -   |
|  | \$ -   |
|  | \$ -   |
|  | \$ -   |
|  | \$ -<br>\$ -   |
|  | \$ -<br>\$ -   |
| 9. Reclamation District 1606**  0.00000%   | \$ -   |
| · · ·  | \$ -   |
|  | \$ -<br>\$ -   |
| OTHER  | * -  |
|  | \$ 71,202  |
| (Stan. Cty 56,766 ac + Merced Cty 3,035 ac)  |  |
| 1a. Merced County (5% of Northwestern DM GSA Cost)   | \$ 785   |
| 1b. Stanislaus County (95% of Northwestern DM GSA Cost)  | \$ 14,916  |
|  | \$ 15,701  |
| · · · · · · · · · · · · · · · · · · ·  | \$ -   |
| 1 · · · · · · · · · · · · · · · · · · ·  | \$ -   |
| ·  | \$ -   |
| 6. Widren GSA 0 0.00000% \$  | \$ -   |
| Total Other 65,941 41.14755% \$  | \$ 86,902  |
|  |  |
| 160,255 100.00%  | \$ 212,500   |

|                            |             | Equal Split between # of     |                 |        |
|----------------------------|-------------|------------------------------|-----------------|--------|
|                            |             | GSAs                         |                 |        |
|                            |             | 5                            |                 |        |
| \$                         | 165,750     | %                            | \$              | 46,750 |
|                            |             |                              |                 |        |
| \$                         | -           | 0.00000%                     | \$              | -      |
| \$                         | -           | 0.00000%                     | \$              | -      |
| \$                         | 59,030      | 20.00000%                    | \$              | 9,350  |
| ļ                          |             |                              |                 |        |
| \$                         | 16,234      | 20.00000%                    | \$              | 9,350  |
|                            |             |                              |                 |        |
| \$                         | -           | 0.000000/                    | œ.              |        |
| \$                         | -<br>22,284 | 0.00000%<br>20.00000%        | \$              | 9,350  |
| Ф                          | 22,204      | 20.00000%                    | Ф               | 9,350  |
| \$                         | 97,548      | 60.00000%                    | \$              | 28,050 |
| \$                         | _           |                              |                 |        |
|                            | -           |                              |                 |        |
| \$ \$ \$                   | -           |                              |                 |        |
| \$                         | -           | 0.00000%                     | \$              | -      |
| \$                         | -           | 0.00000%                     | \$              | -      |
| \$                         | -           | 0.00000%<br><b>0.00000</b> % | \$<br><b>\$</b> | -      |
|                            | -           |                              |                 | -      |
| \$                         | -           | 0.00000%                     | \$              | -      |
| \$                         | -           | 0.00000%                     | \$              | -      |
| \$<br>\$                   | -           | 0.00000%<br>0.00000%         | \$              | -      |
| \$                         |             | 0.00000%                     | \$              | -      |
| \$                         | _           | 0.00000%                     | \$              | _      |
| \$                         | -           | 0.00000%                     | \$              | -      |
| \$                         | _           | 0.00000%                     | \$              | -      |
| \$                         | -           | 0.00000%                     | \$              | -      |
| \$                         | -           | 0.00000%                     | \$              | -      |
| \$<br>\$                   | -           |                              |                 |        |
| \$                         |             | 0.00000%                     | \$              | _      |
| \$                         | -           | 0.00000%                     | \$              | -      |
| \$                         | _           |                              |                 |        |
| \$                         | -           |                              |                 |        |
| \$                         | -           | 0.00000%                     | \$              | -      |
| \$ \$ \$ \$ \$ \$ \$ \$ \$ | -           |                              |                 |        |
| \$                         | -           | 0.00000%                     | \$              | -      |
| \$                         | -           | 0.00000%<br>0.00000%         | \$              | -      |
| \$                         | -           | 0.00000%                     | \$              | -      |
| \$                         | 61,852      | 20.00000%                    | \$              | 9,350  |
|                            |             |                              |                 |        |
| \$                         | 6,351       | 20.00000%                    | \$              | 9,350  |
| \$                         | -           | 0.00000%                     | \$              | -      |
| \$                         | _           | 0.00000%                     | \$              | -      |
| \$                         | -           |                              |                 |        |
| \$                         | 68,202      | 40.00000%                    | \$              | 18,700 |
| •                          | 00,202      | 40.00000 /0                  | •               | 10,700 |
| \$                         | 165,750     | 100.00%                      | \$              | 46,750 |



#### Table 1: Northern & Central Delta-Mendota GSP Implementation Commitments - in Text of Groundwater Sustainability Plan

| Task | Activity   | Related     | GSP<br>Deadline | GSP Reference <sup>(a)</sup>                               | Status as Reported<br>in WY2022 Annual<br>Report | Comments   | Status of Activities <sup>(b)</sup>   |
|------|--|-------------|-----------------|--|--|--|---|
| 1    | Update/refine monitoring network as new wells are constructed  | and well co | nstruction      | information is obtained                                    |  |  |   |
| 1a   | Well Census and Inventory project  |             | 2025            |  | Completed in February 2022                       | Reconciliation of Well Census and Inventory information with update to SGMA monitoring network remains to be done.   | Additional changes to NCDM representative monitoring network (RMN) will be necessary because additional wells were removed from the RMN.  |
| 1b   | Video log 14 wells that are missing well construction information  |             | 2025            | NCDM GSP Section 7.2.5.1.6                                 | N/A  | Identified as an optional task in Well Census and Inventory project scope but not performed.   |   |
| 1c   | Determine if video-logged wells are appropriate to add to the [SGMA] monitoring network                              | 1a          | 2025            | CC Section 4.2.8; NCDM GSP<br>Sections 5.3.8 and 7.2.5.1.6 | N/A  |  | -   |
| 2    | Establish ISW SMC as a rate or volume of surface water depletion   | ıs          |                 |  |  |  |   |
| 2a   | Install five additional ICSW monitoring wells adjacent to the San<br>Joaquin River                                   |             | 2025            | CC Section 4.2.8; NCDM GSP<br>Section 5.3.8                | N/A  | \$929,400 awarded to Subbasin in SGMA Round 1 Implementation Grant for data gap filling efforts, including installation of at least one (1) and up to four (4) ICSW monitoring wells in the NCDM region. | SGMA Round 1 Funding Agreement executed with DWR on 10/7/22. ISW network design in progress. Funding for additional ISW wells in NCDM was included in SGMA Round 2 Grant Application (not sucessful).   |
| 2b   | Collect and analyze data from ICSW monitoring wells  | 2a          | 2030            | CC Section 4.2.8; NCDM GSP<br>Section 5.3.8                | N/A  | Limited data collection and analysis to date.  |   |
| 3    | GDE mapping  |             |                 |  |  |  |   |
|      | Analyze locations of potential GDEs using recent groundwater elevation/depth contour mapping                         |             | 2025            | CC Section 4.2.8; NCDM GSP<br>Section 5.3.8                | N/A  | Limited/no data collection and analysis to date.   |   |
| 4    | Re-evaluate land subsidence SMC considering new data and stud  | ies         | •               |  |  |  |   |
|      | Collect and analyze subsidence data from 2020-2025 and identify where there are spatial data gaps                    |             | 2025            | CC Section 4.2.8   | Ongoing, data<br>collected WY2020<br>and 2021    | Completed Conceptual Master Plan for Subsidence Monitoring and Management for the Delta-Mendota Subbasin in June 2022. Some GSAs (PID, WSID) have been collecting local data.                            | Two NCDM GSAs performed subsidence monitoring at end of 2022. DWR performed survey along Aqueduct and CVP in Feb. 2023.USBR survey planned for Dec. 2023.   |
| 4b   | Work with USBR to revise CVHM2 model to simulate interactions between groundwater extractions and land subsidence    |             | 2025            | CC Section 5.4.4   | N/A  | Intermittent coordination meetings have occurred between SLDMWA, GSAs, and USBR.   | Reviewed groundwater model with USBR & USGS in December 2022 and March 2023. Model likely not available for formal release until later in 2023. With input from Subbasin GSAs, EKI currently using the model to evaluate Subbasin water budget. |
| 4c   | Determine portion of subsidence caused by groundwater extraction within and outside the Subbasin at each RMS         | 4a, 4b      | 2025            | NCDM GSP Section 6.3.5.3                                   | N/A  | \$929,400 awarded to Subbasin in SGMA Round 1 Implementation Grant for portion of data gap filling efforts, including subsidence monitoring.   | SGMA Round 1 Funding Agreement executed with DWR on 10/7/22. Consultant RFP for subsidence monitoring in progress.  |
| 4d   | Review and revise HCM to incorporate new subsidence data, including AEM survey and results from the subsidence study | 4a, 4c      | 2025            | CC Section 5.4.4; NCDM GSP<br>Section 6.3.5.3              | N/A  | Limited/no analysis to date.   | Review of recent subsidence data in progress through revision of SMCs in reponse to DWR Inadequate Determination.   |
| 4e   | Assess allowable land subsidence on a Subbasin and localized basis   | 4a, 4c, 4d  | 2025            | CC Section 5.4.4; NCDM GSP<br>Section 6.3.5.3              | N/A  | Limited/no analysis to date.   | Review of recent subsidence data in progress through revision of SMCs in reponse to DWR Inadequate Determination.   |
| -    | Conduct an updated subsidence DMC Conveyance Capacity<br>Analysis  |             | 2025            | NCDM GSP Section 5.3.8                                     | N/A  | SLDMWA led effort. SLDMWA noted that work has been done to create a model in HEC-RAS and an EIR for Subsidence Correction Project is expected to be complete mid-2023.                                   |   |



#### Table 1: Northern & Central Delta-Mendota GSP Implementation Commitments - in Text of Groundwater Sustainability Plan

| Task | Activity  | Related | GSP<br>Deadline | GSP Reference <sup>(a)</sup>                  | Status as Reported<br>in WY2022 Annual<br>Report | Comments   | Status of Activities <sup>(b)</sup>  |
|------|---|---------|-----------------|---|--|--|--|
| 5    | Refine/update water budget and sustainable yield estimates  |         |                 |   |  |  |  |
| II.  | Establish additional CIMIS and/or other weather stations to define spatial variability of precipitation and evapotranspiration  |         | 2025            | NCDM GSP Section 5.3.8                        | N/A  | Limited/no analysis to date.   |  |
|      | Reconciliation of water budget nomenclature in individual GSPs with terminology used in the Common Chapter  |         | 2025            | CC Section 4.3.1                              | N/A  | Limited/no analysis to date.   | Improvements to Subbasin water budgets in progress through Response to DWR Inadequate Determination.                   |
|      | Improve estimated allocation of groundwater extraction between<br>two aquifers (based on well construction information and<br>inventory projects completed by GSAs in 2022) | 1a, 1b  | 2025            | CC Section 4.3.1                              | N/A  | Limited/no analysis to date.  Reconciliation of Well Census and Inventory information with update to pumping estimates remains to be done.  Some GSAs have initiated efforts to register wells and require metering/water use reporting, but incomplete records to date. |  |
|      | Improve storage estimates of each aquifer using data collected from 2020-2025   |         | 2025            | CC Section 4.3.1                              | N/A  | Limited/no analysis to date.   | Improvements to storage estimates in each aquifer in progress using model in Response to DWR Inadequate Determination. |
| 6    | Update Sustainable Management Criteria  |         |                 |   |  |  |  |
|      | Develop short-term (acute) thresholds for Chronic Lowering of Groundwater Levels  |         | 2025            | CC Section 5.4.1; NCDM GSP<br>Section 6.3.1.2 | N/A  | Limited/no analysis to date.   | Revision of Subbasin SMCs in progress through Response to DWR Inadequate Determination.                                |

#### Abbreviations:

| AEM   | = Airborne Electromagnetic                            | N/A    | = Not Applicable                             |
|-------|---|--------|--|
| CC    | = Common Chapter                                      | NCDM   | = Northern & Central Delta-Mendota           |
| CIMIS | = California Irrigation Management Information System | PID    | = Patterson Irrigation District              |
| CVHM2 | = Central Valley Hydrologic Model, Version 2          | RMS    | = Representative Monitoring Site             |
| DMC   | = Delta-Mendota Canal                                 | SGM    | = Sustainable Groundwater Management         |
| EIR   | = Environmental Impact Report                         | SGMA   | = Sustainable Groundwater Management Act     |
| GDE   | = Groundwater Dependent Ecosystem                     | SLDMWA | = San Luis and Delta-Mendota Water Authority |
| GSA   | = Groundwater Sustainability Agency                   | SMC    | = Sustainable Management Criteria            |
| GSP   | = Groundwater Sustainability Plan                     | USBR   | = United States Bureau of Reclamation        |
| HCM   | = Hydraulic Conceptual Model                          | WSID   | = West Stanislaus Irrigation District        |
| ICSW  | = Interconnected Surface Water                        | WY     | = Water Year                                 |

#### Notes:

- (a) Commitments identified in this table were made in either the 2022 Amended NCDM GSP or the Common Chapter for the Delta-Mendota Subbasin GSPs.
- (b) Based upon information communicated by GSAs.
- (c) A yellow highlighted row indicates that the activity was not included in the 2020 GSP submittal and was added during the 2022 GSP revision process.



## Table 2: Northern & Central Delta-Mendota GSP Implementation Commitments - Projects

| Tier <sup>(a)</sup> | Project <sup>(b)</sup>   | Project Proponent                      | Implementation Start Date | Estimated Cost | Status as Reported in WY2022 Annual Report <sup>(c)</sup>   | Comments <sup>(d)</sup>  | Status of Activities <sup>(e)</sup>  |
|---------------------|--|--|---------------------------|----------------|---|--|--|
| 1                   | Los Banos Creek Recharge and Recovery Project  | San Luis Water District                | February 2020             | \$9,116,374    | Preliminary design completed in 2018; additional steps pending funding for CEQA, design, and construction.  |  | SGMA Round 1 Funding Agreement executed with DWR on 10/7/22. Permitting and design in progress.  |
| 1                   | Orestimba Creek Recharge and Recovery Project  | Del Puerto Water District              | February 2020             | \$7,923,450    | CEQA/NEPA complete; design anticipated complete in early 2023; construction anticipated to begin in early 2023.   |  | Design is complete. Construction anticipated complete in winter 2023.  |
| 1                   | North Valley Regional Recycled Water Program (NVRRWP) –<br>Modesto and Early Turlock Years | Del Puerto Water District              | February 2020             | \$96,000,000   | Completed Turlock and Modesto components in March 2020; Ceres component in progress, funding requested through SGMA Round 1 Implementation Grant; anticipated completion in 2023.                               | Portions of project are completed.<br>\$250,150 awarded in SGMA Round 1<br>Implementation Grant. | SGMA Round 1 Funding Agreement executed with DWR on 10/7/22.   |
| 1                   | City of Patterson Percolation Ponds for Stormwater Capture and Recharge                    | City of Patterson                      | February 2020             | \$7,800,000    | Project still in conceptual and EIR phase (linked to planned development); preliminary design initiated in 2022.  |  | Preliminary design initiated and in progress.  |
| 1                   | Kaljian Drainwater Reuse Project   | San Luis Water District                | February 2020             | \$16,500,000   | Preliminary design and CEQA/permitting in progress; design planned in phases from 2023-2025, construction planned in phases to start in 2025.   |  | Preliminary design complete; permitting in progress.   |
| 1                   | West Stanislaus Irrigation District Lateral 4-North Recapture and Recirculation Reservoir  | West Stanislaus Irrigation<br>District | February 2020             | \$1,120,000    | FS completed in Sept 2021; design anticipated to take 8 months with CEQA in parallel. Funding obtained from SGMA Round 1 Grant.   | \$250,150 awarded in SGMA Round 1<br>Implementation Grant.                                       | SGMA Round 1 Funding Agreement executed with DWR on 10/7/22. Construction planned to start in fall 2024.   |
| 1                   | Revision to Tranquillity Irrigation District Lower Aquifer<br>Pumping                      | Tranquillity Irrigation District       | February 2020             | \$0            | Well Water Operations Plan established in 2017 and implemented on an annual basis.  |  |  |
| 2                   | Del Puerto Canyon Reservoir Project  | Del Puerto Water District              | January 2026              | \$491,300,000  | CEQA completed in October 2021; NEPA draft released in November 2021; preliminary design completed in 2022; 100% design and permitting anticipated complete in 2024; construction anticipated complete in 2028. |  | Preliminary design is complete. NEPA anticipated complete in 2024; 100% design and permitting anticipated complete in 2024; construction anticipated complete in 2028. |
| 2                   | Little Salado Creek Groundwater Recharge and Flood Control<br>Basin                        | Stanislaus County                      | January 2026              | \$7,710,000    | Scheduled for development in subsequent phases of the overall Crow's Landing Industrial Business Park.  |  | ·  |
| 2                   | Patterson Irrigation District Groundwater Bank and/or Flood<br>MAR-type Project            | Patterson Irrigation District          | January 2026              | TBD            | Consultant retained for FS; acquired small potential property.  |  | Pilot study anticipated in winter 2023.  |
| 2                   | West Stanislaus Irrigation District Lateral 4-South Recapture and Recirculation Reservoir  | West Stanislaus Irrigation<br>District | January 2026              | \$1,500,000    | Preliminary design completed in September 2021.   | Partially funded under IRWM grant.   |  |
| 2                   | Ortigalita Creek Groundwater Recharge and Recovery Project                                 | San Luis Water District                | January 2026              | TBD            | Funding requested in SGMA Round 2 Grant Application.  | Partially funded under IRWM grant.   | Expect to complete preliminary design in winter 2023. Funding request was included in SGMA Round 2 Grant Application (not successful).                                 |

Abbreviations and Notes provided on page 2



#### Table 2: Northern & Central Delta-Mendota GSP Implementation Commitments - Projects

#### **Abbreviations:**

CEQA = California Environmental Quality Act
CLIBP = Crows Landing Industrial Business Park

EIR = Environmental Impact Report

FS = Feasibility Study

IRWM = Integrated Regional Water Management

MAR = Managed Aquifer Recharge

N/A = Not Applicable

NCDM = Northern & Central Delta-Mendota NEPA = National Environmental Policy Act SGM = Sustainable Groundwater Management

TBD = To Be Determined

USBR = United States Bureau of Reclamation

WY = Water Year

#### Notes:

(a) Projects and Management Actions divided into Tiers (pg 7-1 of Revised GSP):

<u>Tier 1</u> – Near-term projects and management actions that the Groundwater Sustainability Agencies (GSAs) are committed to implementing at this time. These projects and management actions are either currently in the process of being implemented or could be implemented in the near future (constructed and operational) within the next five years (by 2025).

<u>Tier 2</u> – Projects and management actions that have been identified and require further development before implementation can occur. It is anticipated that these projects and management actions could be developed over the next five years and implemented beginning in 2026 or later, pending re-evaluation prior to the 5-year GSP Update in 2025.

<u>Tier 3</u> – Longer-term projects and management actions that may be implemented in the future as needed. Many of these projects are outside of the GSAs' control but could have implications on surface water availability and/or are additional projects/management actions that could be implemented under an adaptive management approach For purposes of this analysis, did not include the Tier 3 projects listed in the GSP (because implementation of the identified projects is driven by others).

- (b) Project information obtained from Section 7 of the 2022 amended NCDM GSP.
- (c) Consolidated WY 2022 Annual Report dated March 2023.
- (d) Per SGMA Budget Spending Plan circulated by John Brodie on 12 August 2022, NCDM was awarded a total of \$1,500,300 from SGMA Round 1 grant to Subbasin.
- (e) Based upon information communicated by GSAs and other updates.



## Table 3: Northern & Central Delta-Mendota GSP Implementation Commitments - Management Actions

| Tier <sup>(a)</sup> | Responsible GSAs                                     | Status of Activities <sup>(d)</sup>   | Status as Reported in WY2022 Annual Report <sup>(c)</sup> | Notes   |  |
|---------------------|--|---|---|---|--|
| 1                   | Lower Aquifer Pumping Rules for Minimizing           | Subsidence  |   |   |  |
|                     | Central Delta-Mendota GSA                            | Adopted Administrative Policy No. 2 regarding well metering and reporting in January 2023.                                      | Several GSAs have adopted ordinances requiring            | GSA efforts to require metering and reporting of pumping are      |  |
|                     | City of Patterson GSA                                |   | registration of wells and/or reporting of                 | continuing. This pumping data, coupled with the Well Census       |  |
|                     | DM-II GSA  | Collecting data, and require signed agreement with owner of new wells that pumping will occur only per GSP                      | pumping. The Central GSA has developed and                | and Inventory Report, could be used to better understand          |  |
|                     |  | rules. Policy adopted in 2022 which requires registration of wells, and metering starting in 2023.                              | approved an Administrative Policy for                     | location and distribution of pumping.                             |  |
|                     | Northwestern Delta Mendota GSA                       | Stanislaus & Merced County permits for new extraction wells require metering and reporting.                                     | metering/reporting. A few GSAs do not extract             |   |  |
|                     | Oro Loma Water District GSA                          |   | from Lower Aquifer.                                       |   |  |
|                     | Patterson Irrigation District GSA                    | Adopted ordinance requiring the registration of wells and reporting of pumping. Working on implementation.                      |   |   |  |
|                     | West Stanislaus Irrigation District GSA              | Financial incentive for grower initial use (2 AF/ac) of surface water.  |   |   |  |
|                     | Widren Water District GSA                            | Two operational WWD Upper Aquifer (no Lower Aquifer) supply wells are equipped with meters.                                     |   |   |  |
| 1                   | Maximize Use of Other Water Supplies                 |   |   |   |  |
|                     | Central Delta-Mendota GSA                            | SNCWD: Signed partial agreement with USBR for CVP supply; additional USBR contracting planned.                                  | No formal policies implemented.                           |   |  |
|                     |  | Pacheco WD developing contract for surface water supplies to reduce Lower Aquifer pumping.                                      |   |   |  |
|                     | City of Patterson GSA                                | Evaluating stormwater recharge project (tied to development).   |   |   |  |
|                     | DM-II GSA  | Adopted a policy requiring purchase of 75% of CVP allocation. Exceptions allowed only if groundwater use will not be increased. |   |   |  |
|                     | Northwestern Delta Mendota GSA                       |   |   |   |  |
|                     | Oro Loma Water District GSA                          |   |   |   |  |
|                     | Patterson Irrigation District GSA                    | Surface water is preferred by local growers.  |   |   |  |
|                     | West Stanislaus Irrigation District GSA              | Financial incentive for grower initial use (2 AF/ac) of surface water. Discharge of groundwater into WSID is                    |   |   |  |
|                     |  | prohibited unless WSID is short of water.   |   |   |  |
|                     | Widren Water District GSA                            |   |   |   |  |
| 1                   | Increasing GSA Access to and Input on Well F         |   |   |   |  |
|                     | Central Delta-Mendota GSA                            | Merced updated its well permitting process.   | GSAs have coordinated on increasing GSA                   | Governor's Executive Order N-7-22 regarding well permitting       |  |
|                     | City of Patterson GSA                                |   | participation in well permitting process. Merced          | provides some clarity and authority.                              |  |
|                     | DM-II GSA  | District staff review submitted well applications for potential impacts.  | County and Stanislaus County have updated                 |   |  |
|                     | Northwestern Delta Mendota GSA                       | Merced updated its well permitting process. Stanislaus well permitting process being updated.                                   | their well permitting process and requirements.           |   |  |
|                     | Oro Loma Water District GSA                          |   | 4   |   |  |
|                     | Patterson Irrigation District GSA                    |   | 4   |   |  |
|                     | West Stanislaus Irrigation District GSA              | Adopted ordinance requiring the registration of wells and reporting of pumping.   | 4   |   |  |
| 4                   | Widren Water District GSA                            |   |   |   |  |
|                     | Drought Contingency Planning in Urban Area           |   | Conducted as part of LIM/MD                               |   |  |
| 1                   | City of Patterson GSA Fill Data Gaps                 | Conducted contingency planning described in adopted 2020 UWMP.  | Conducted as part of UWMP.                                |   |  |
| 1                   | Central Delta-Mendota GSA                            | Adopted Administrative Policy No. 2 regarding well metering and reporting in January 2023.                                      | Funding was awarded in April 2022 to fill                 | See "Implementation Activities" tab for specific data-gap filling |  |
|                     | City of Patterson GSA                                | Conducted subsidence monitoring and added well to monitoring network. Improving well metering.                                  | data gaps in interconnected surface water                 | efforts.  |  |
|                     | DM-II GSA  | DPWD serving as grantee for SGMA Round 1 Implementation Grant. Obtained WaterSMART grant to obtain                              | and subsidence monitoring under the SGMA                  | Additional ISW wells in NCDM included in SGMA Round 2 Grant       |  |
|                     | remote monitoring equipment for high priority wells. |   | Round 1 Implementation Grant.                             | Application (not successful).                                     |  |
|                     | Northwestern Delta Mendota GSA                       |   |   |   |  |
|                     | Oro Loma Water District GSA                          |   |   |   |  |
|                     | Patterson Irrigation District GSA                    | Improving pumping data collection.  | 1   |   |  |
|                     | West Stanislaus Irrigation District GSA              |   | 1   |   |  |
|                     | Widren Water District GSA                            |   |   |   |  |

Abbreviations and Notes provided on page 2



#### Table 3: Northern & Central Delta-Mendota GSP Implementation Commitments - Management Actions

#### **Abbreviations:**

CDM = Central Delta-Mendota N/A = Not applicable
CVP = Central Valley Project PID = Patterson Irrigation District

DPWD = Del Puerto Water District SGM = Sustainable Groundwater Management
EO = Executive Order USBR = United Stated Bureau of Reclamation
GSA = Groundwater Sustainability Agency UWMP = Urban Water Management Plan
GSP = Groundwater Sustainability Plan WSID = West Stanislaus Irrigation District

NCDM = Northern & Central Delta-Mendota WY = Water Year

#### Notes:

(a) Projects and Management Actions divided into Tiers (pg 7-1 of 2022 Amended NCDM GSP):

<u>Tier 1</u> – Near-term projects and management actions that the Groundwater Sustainability Agencies (GSAs) are committed to implementing at this time. These projects and management actions are either currently in the process of being implemented or could be implemented in the near future (constructed and operational) within the next five years (by 2025).

<u>Tier 2</u> – Projects and management actions that have been identified and require further development before implementation can occur. It is anticipated that these projects and management actions could be developed over the next five years and implemented beginning in 2026 or later, pending re-evaluation prior to the 5-year GSP Update in 2025.

<u>Tier 3</u> – Longer-term projects and management actions that may be implemented in the future as needed. Many of these projects are outside of the GSAs' control but could have implications on surface water availability and/or are additional projects/management actions that could be implemented under an adaptive management approach.

- (b) Management Action information obtained from Section 7 of the 2022 Amended NCDM GSP.
- (c) Consolidated WY 2022 Annual Report dated March 2023.
- (d) Based upon information communicated by GSAs.



Table 4: Northern & Central Delta Mendota GSP Implementation - Status of Well Ordinances

| Organization                           | Ordinance Identification  | Ordinance Date | Text   |
|--|---|----------------|--|
| Fresno County                          | Ordinance No. 00-13   | September 2000 | Section 14.03.090 - Conditions of permit approval.  "C. If requested by the county, the permittee shall share with the county groundwater monitoring information and data, and, where practicable, the parties shall coordinate their groundwater management efforts to effectively monitor groundwater resources throughout the county"   |
| Merced County                          | Ordinance No. 1930 An Ordinance to Prevent the Mining and Export of Groundwater from the Unincorporated Portions of Merced County | March 2015     | Section 9.27.065 - Groundwater Monitoring & Reporting  "A. Monitoring. All new permits for wells or groundwater exports under the scope of this ordinance shall be measured by a properly installed and maintained water measuring device satisfactory to the Department of Public Health, Division of Environmental Health. As an alternative to water measuring devices, other reasonable methods to determine groundwater extraction may be used if approved by the Department of Public Health, Division of Environmental Health.  B. Reporting. All persons, including Public Works Agencies, that extract groundwater within the County shall cause to be prepared and submitted to the Department of Public Health, Division of Environmental Health, annual reports of groundwater information that are necessary to monitor the existing condition of groundwater resources within the CountyThe required information to be reported shall include without limitation water level and pumping data" |
| Stanislaus County                      | Ordinance CS 1155, Section 9  | 2014           | Section 9.37.065 - Groundwater Monitoring.  "A. All persons, including public water agencies that extract groundwater within the county shall cause to be prepared and submitted to the county department of environmental resources periodic reports of groundwater information that are reasonably necessary to monitor the existing condition of groundwater resources within the county, to determine trends, or to develop effective sustainable groundwater management plans and policies. A de minimis extractor shall not be required to submit such information.  B. The department shall develop and recommend regulations to be adopted by the board that establish the frequency and timing of required reports, and the required information to be monitored, including, without limitation, water level and pumping data, or other data necessary for any other method to determine groundwater production."   |
| Patterson<br>Irrigation District       | Resolution 05-2020: Patterson Irrigation District Groundwater Sustainability Agency Rule Regarding Irrigation Well Meters         | 15 April 2020  | "The owner of any Groundwater Extraction Facility within the PID GSA must register that Groundwater Extraction Facility with the PID GSA The owner of every Groundwater Extraction Facility within the PID GSA must measure use of that Groundwater Extraction Facility by a water-measuring device (Meter) satisfactory to the PID GSA Meters must be installed on all Groundwater Extraction Facilities by January 1st, 2021."   |
| West Stanislaus<br>Irrigation District | West Stanislaus Irrigation District<br>Groundwater Sustainability Agency<br>Policy Regarding Irrigation Well Meters               | 2020           | "The owner of any Groundwater Extraction Facility within the WSID GSA must register that Groundwater Extraction Facility with the WSID GSA The owner of every Groundwater Extraction Facility within the WSID GSA must measure use of that Groundwater Extraction Facility by a water-measuring device (Meter) satisfactory to the WSID GSA. Meters must be installed on all Groundwater Extraction Facilities by January 1st, 2021. The meter shall measure all flow rate in gallons per minute, or cubic feet per second and totalize total extractions in gallons, cubic feet, or in acre-feet."  |



## **Table 4: Northern & Central Delta Mendota GSP Implementation - Status of Well Ordinances**

| Organization      | Ordinance Identification                | Ordinance Date  | Text  |
|-------------------|---|-----------------|---|
| Del Puerto Water  | Groundwater Well Metering Policy        | 2022            | Covers well registration, metering, access, costs, semi-annual reporting, maintenance, and exclusions. Packets were sent to customers |
| District          |   |                 | explaining the new well registration and metering requirements.   |
| City of Patterson | Ordinance No. 348, Section 1            | 1981            | 13.20.010 Private wells - Construction prohibited.  |
|                   |   |                 | No person, firm or corporation may drill, dig or install a water well in the city for any purpose whatsoever, save and except the     |
|                   |   |                 | Patterson City Water Company.   |
| Central Delta-    | Central GSA Resolution Nos. 2021-01 and | 25 January 2021 | Adopted two Resolutions on 25 January 2021: require registration of all wells by 4/1/2021, impose fee for late registration. Adopted  |
| Mendota GSA       | 2021-02                                 |                 | Well Metering and Reporting Policy in 2022 to require installation of meters on production wells within the GSA and reporting of      |
|                   |   |                 | pumped groundwater volumes. Adopted Policy Number Two in January 2023, and distributed to constituents. GSA members are               |
|                   |   |                 | developing draft Well Access and Indemnity Agreements to allow meter reading for property owners with groundwater wells.              |
|                   |   |                 |   |
| Widren Water      | N/A                                     | N/A             | N/A. The two operational supply wells in WWD are equipped with meters.  |
| District          |   |                 |   |

#### **Abbreviations:**

GSA = Groundwater Sustainability Agency
GSP = Groundwater Sustainability Plan

N/A = Not Applicable

NCDM = Northern & Central Delta-Mendota

No. = Number

PID = Patterson Irrigation District

SGMA = Sustainable Groundwater Management Act

WSID = West Stanislaus Irrigation District

#### Notes:

- (a) Online search for ordinances adopted by NCDM GSAs and member agencies performed in August 2022.
- (b) Note that County Ordinances are also discussed in Section 2.3.2 of the 2022 Amended NCDM GSP. Discussion speaks more to permitting process for well construction/destruction and less to measuring of pumped groundwater.

## **GSP Implementation Schedule**

#### Northern & Central Delta-Mendota GSP Region

#### 3-MONTH LOOK-AHEAD SCHEDULE

| TASK   | RESPONSIBLE PARTY | START          | END       | AUG    |        |        |        | SEP    |        |        |            | ОСТ       |        |        |        | NOV    |        |             |  |
|--|-------------------|----------------|-----------|--------|--------|--------|--------|--------|--------|--------|------------|-----------|--------|--------|--------|--------|--------|-------------|--|
| IAJK   |                   |                |           | WEEK 1 | WEEK 2 | WEEK 3 | WEEK 4 | WEEK 1 | WEEK 2 | WEEK 3 | WEEK 4 WEE | C5 WEEK 1 | WEEK 2 | WEEK 3 | WEEK 4 | WEEK 1 | WEEK 2 | WEEK 3 WEEK |  |
| BASIN-SCALE COORDINATION                                       |                   |                |           |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Intra-Basin Coordination                                       |                   |                |           |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Subbasin Coordination Committee                                | Basin GSAs        | Semi           | -Monthly  |        |        | -      |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Subbasin Technical Working Group                               | Basin GSAs        | Monthly        |           |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Respond to Inadequate Determination from DWR                   | Basin GSAs / EKI  | 3/2/23         | 7/31/24   |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| SGM Implementation Grant                                       |                   |                |           |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Perform SGM Round 1 Grant Approved Activities                  | Basin GSAs        | 10/7/22        | 4/30/25   |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| N-C REGION COORDINATION / ADMINISTRATION                       |                   |                |           |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| N-C Coordination Meetings                                      |                   |                |           |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Northern Region Management Committee Meetings                  | GSAs              | M              | onthly    |        |        |        |        |        |        |        |            |           |        |        |        | -      |        |             |  |
| Central Region Management Committee Meetings                   | GSAs              | Qı             | uarterly  |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Technical/Finance Working Group Meetings                       | GSAs              |                | TBD       |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| GSP Progress Checks  |                   |                |           |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| GSP Implementation Progress Reports (Tracking Tools)           | GSAs              | Sem            | ni-Annual |        |        |        |        |        |        |        |            |           |        |        |        | •      |        |             |  |
| N-C REGION GSP IMPLEMENTATION                                  |                   |                |           |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Water Level Monitoring   |                   |                |           |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Collect Fall Water Level Data                                  | GSAs / SLDMWA     | 9/1/23         | 10/31/23  |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Data QA/QC   | GSAs / W&C        | 10/31/23       | 11/30/23  |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Fall Data Consolidation/Upload to DMS/SGMA Portal              | GSAs / W&C        | 10/31/23       | 12/31/23  |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Water Quality Monitoring                                       |                   |                |           |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Collect Water Quality Data                                     | GSAs              | 5/1/23         | 8/31/23   |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Data QA/QC   | GSAs / W&C        | 7/31/23        | 9/30/23   |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Data Consolidation/Upload to DMS                               | GSAs / W&C        | 7/31/23        | 9/30/23   |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Interconnected Surface Water Monitoring                        |                   |                |           |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Install/Identify New Monitoring Wells                          | WSID / PID / NWDM | 3/1/20         | 12/31/23  |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Meet with Adjoining GSP Groups                                 | WSID / PID / NWDM | As-            | -needed   |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Projects <sup>(a)</sup>  |                   |                |           |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Los Banos Creek Recharge and Recovery Project                  | SLWD              | In design      | TBD       |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Kaljian Drainwater Reuse Project                               | SLWD              | Design in 2024 | TBD       |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Orestimba Creek Recharge and Recovery Project                  | DPWD              | Const in 2023  | 12/31/23  |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| NVRRWP – Increased Modesto and Turlock Portions <sup>(b)</sup> | DPWD              | Co             | mplete    |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Percolation Ponds for Stormwater Capture and Recharge          | City of Patterson | PD in 2023     | TBD       |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| WSID Lateral 4-North Recapture and Recirculation Reservoir (c) | WSID              | Design in 2023 | Est. 2024 |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |
| Revision to TRID Lower Aquifer Pumping <sup>(d)</sup>          | TRID              |                | n-going   |        |        |        |        |        |        |        |            |           |        |        |        |        |        |             |  |

#### **GSP Implementation Schedule**

#### Northern & Central Delta-Mendota GSP Region

#### 3-MONTH LOOK-AHEAD SCHEDULE

| TASK  | RESPONSIBLE     | START   | END      | AUG    |        |        |        | SEP    |        |        |        |        | ОСТ    |        |        |        | NOV    |        |        |        |
|---|-----------------|---------|----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| IASK  | PARTY           |         |          | WEEK 1 | WEEK 2 | WEEK 3 | WEEK 4 | WEEK 1 | WEEK 2 | WEEK 3 | WEEK 4 | WEEK 5 | WEEK 1 | WEEK 2 | WEEK 3 | WEEK 4 | WEEK 1 | WEEK 2 | WEEK 3 | WEEK 4 |
| Management Actions <sup>(a)</sup>                     |                 |         |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Lower Aquifer Pumping Rules for Minimizing Subsidence | GSAs            | 6/25/20 | 12/31/23 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1      |        |
| Maximize Use of Other Water Supplies                  | GSAs            | 6/25/20 | 10/31/24 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1      |        |
| Increasing GSA Access to and Input on Well Permits    | GSAs            | 6/11/20 | 12/31/23 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Drought Contingency Planning in Urban Areas           | GSAs            | Co      | mplete   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Fill Data Gaps  | GSAs            | 2/1/20  | 4/30/25  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Additional GSP Activities                             |                 |         |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Basin Groundwater Model CVHM2-SJB                     | USGS/USBR / EKI | 3/1/20  | TBD      |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Develop/Revise Subbasin GSP                           | GSAs / EKI      | 3/1/23  | 7/31/24  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        | 1      |        |
| Project Management and Communication                  | SLDMWA / EKI    | 3/1/23  | 2/29/24  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| As-Needed Technical Support                           | EKI / W&C       | 3/1/23  | 2/29/24  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|   |                 |         |          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

#### **Abbreviations**

DMS = Data Management System

DM = Delta Mendota

DPWD = Del Puerto Water District

EKI = EKI Environment & Water, Inc.

FS = Feasibility Study

GSA = Groundwater Sustainability Agency

GSP = Groundwater Sustainability Plan

MNM = DWR SGMA Monitoring Network Module

NVRRWP = North Valley Regional Recycled Water Program

P&MA = Projects and Management Actions

PD = Preliminary Design

PID = Patterson Irrigation District

P&P = Provost & Pritchard

QA/QC = Quality Assurance/Quality Control

SLDMWA = San Luis & Delta-Mendota Water Authority

SLWD = San Luis Water District

TBD = to be determined

TRID = Tranquillity Irrigation District

TWG = Technical Working Group

USBR = United States Bureau of Reclamation

USGS = United States Geological Survey

W&C = Woodard & Curran

WSID = West Stanislaus Irrigation District

WY = Water Year

#### **Notes**

- (a) Projects and Management Actions extend through 2025.
- (b) Portion of project is complete. Increased supply of recycled water expected.
- (c) Needs to be coordinated with Orestimba and Del Puerto Creek projects.
- (d) In operation starting in 2017.

#### **Key Dates**

Aug 2, 2023: Northern Delta-Mendota Management Committee Meeting

Aug 8, 2023: Special Meeting of Subbasin Coordination Committee and Technical Working Group

Aug 14, 2023: Subbasin Coordination Committee and Technical Working Group Meeting

Aug 28, 2023: Special Meeting of Subbasin Coordination Committee and Technical Working Group

Sept 6, 2023: Northern Delta-Mendota Management Committee Meeting Oct 4, 2023: Northern Delta-Mendota Management Committee Meeting

#### Funding Opportunities – Updated 7/20/2023

#### Pilot Program for Water Resource Projects for Disadvantaged Communities

The program seeks to fully fund small water resources projects for economically disadvantaged communities. Eligible projects include: emergency streambank protection for public facilities, local protection from flooding, and aquatic ecosystem restoration. No local cost share is required. U.S. Army Corps of Engineers. Deadline 8/21/23

# <u>Integrated Climate Adaptation and Resiliency Program's Regional Resilience Planning and Implementation Grant Program</u>

The Regional Resilience Grant Program (RRGP) funds planning and implementation projects that strengthen climate change resilience at a regional scale. The RRGP funds projects led by partnerships that involve multiple jurisdictions working together to address the most significant climate change risks in their regions, especially in communities that are most vulnerable to climate change impacts. Up to \$3 Million per project, \$9.4 Million total available. Governor's Office of Planning and Research. Deadline: 8/29/23

#### Instream Flow Water Purchase Program

The Instream Flow Water Purchase Program (WPP) establishes financial instruments and agreements necessary to ensure water for beneficial instream flows are made available from those with legal rights to use or dedicate water. Projects must measurably enhance streamflow at a time and location necessary to provide fisheries or ecosystem benefits or that improve upon existing flow conditions. Minimum qualifications will require applicants to provide at least 2,000 acre-feet of water through sale, lease, license, dedication or other binding mechanism, including forbearance, for purposes of instream flow enhancement between January 1st and June 30th in every water year type in which the water right holder proposes to provide water. These flows must be provided in the Sacramento-San Joaquin Delta Watershed for at least 10 water years (subject to negotiation if only provided in specific water year types). Up to \$360 Million available. Department of Water Resources. Deadline: 10/1/23

#### Farm and Ranch Solid Waste Clean-up and Abatement Program

The program offers financial support to address the cleanup & prevention of illegal dumping on properties designated for agricultural purposes. It is possible to include multiple projects/sites within a single application. \$50,000 maximum per site, \$200,000 maximum per application. Dept. of resources, Recycling, and Recovery. Deadline 10/5/23.

#### Regional Climate Collaborative Program (Round 2)

The Regional Climate Collaborative (RCC) Program provides resources to advance climate change mitigation, adaptation, and resilience within under-resourced communities. The program funds cross-sector partners to form a Collaborative and conduct various capacity building activities, such as partnership development, project and plan development, data collection, education and training, and the creation of technical assistance hubs to pursue climate investments. A total of \$8.5 million available with a maximum award of \$1.75 million. Strategic Growth Council. Deadline: 12/6/23

#### Water Resilience Infrastructure-Water Recycling

The purpose of the grant is to provide technical and financial assistance to local agencies for the planning and construction of water recycling projects that promote the beneficial use of treated municipal wastewater in order to augment fresh water supplies in California. Up to \$15 million

available per project and a total of more than \$232 Million. State Water Resources Control Board. Deadline: 6/30/25

#### Emergency Community Water Assistance Program

This program helps eligible communities prepare, or recover from, an emergency that threatens the availability of safe, reliable drinking water and is targeted at small communities and rural areas (DACs, SDACs, and EDAs). \$150,000 available for leak repair and maintenance to existing water lines and construct water line extensions; up to \$1,000,000 for construction of new wells, transmission lines, treatment plants, or other sources of water. USDA Rural Development. Applications accepted on a continuous basis.

#### County-Wide and Regional Funding Program

Funding for regional programs that address drought-related and contamination issues for small water systems and domestic wells serving DACs. No deadline. Funding is from the State Water Board.

#### Restoration Grant Program

Multiple funding programs including wetland restoration, wildlife corridors, and addressing climate impacts. Project categories include: planning, implementation, acquisition, monitoring, and scientific studies. Applications accepted on rolling basis. Funding from CA Dept. of Fish and Wildlife.

#### Riparian Habitat Conservation Program

The Wildlife Conservation Board is accepting concept proposals for projects that provide meaningful and sustainable improvements to riparian habitats. \$3 Million available on a rolling basis.

#### Fertilizer Research and Education Program

Total of \$225,000 available for projects on: improving input management, understanding plant-soil processes, and evaluating loss pathways. They are focused on nutrients in general with nitrogen/nitrates as a particular focus. It is a rolling deadline with funding awarded as projects are approved. CA Dept. of Food and Agriculture.

# <u>Building Resilient Infrastructure and Communities (BRIC) and Flood Mitigation Assistance (FMA)</u> <u>Programs</u>

Applications accepted through the Governor's Office of Emergency Services. BRIC is prioritizing the following types of projects: infrastructure projects, projects that benefit disadvantaged communities as referenced in EO 14008, and projects that incorporate nature-based solutions including those designed to reduce carbon emissions, climate change adaptation and resilience projects. 25% Match required. Applications accepted on a rolling deadline.