



REGULAR BOARD MEETING

APRIL 19, 2022



STOCKTON EAST WATER DISTRICT

PROVIDING SERVICE SINCE 1948

www.sewd.net

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MEETING NOTICE

THE REGULAR MEETING OF THE BOARD OF DIRECTORS OF THE STOCKTON EAST WATER DISTRICT WILL BE HELD AT 12:30 P.M., TUESDAY, APRIL 19, 2022 AT THE DISTRICT OFFICE, 6767 EAST MAIN STREET STOCKTON, CALIFORNIA 95215

Assistance for the Disabled: If you are disabled in any way and need accommodation to participate in the meeting, please contact Kristin Carido, Administrative Services Manager (209) 948-0333 at least 48-hours in advance for assistance so the necessary arrangements can be made.

DUE TO COVID-19 STOCKTON EAST WATER DISTRICT BOARD MEETINGS WILL BE AVAILABLE BY TELECONFERENCE.

Please call (425) 436-6336/Access Code: 866228# to be connected to the Regular Board Meeting, to begin at 12:30 p.m.

Agendas and minutes are located on our website at www.sewd.net.

AGENDA

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- B. Consent Calendar (None)**
- C. Public Comment (Non-Agenda Items)**
- D. Scheduled Presentations and Agenda Items**
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J.	Report of the Counsel	
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K. Adjournment

Certification of Posting

I hereby certify that on April 14, 2022 I posted a copy of the foregoing agenda in the outside display case at the District Office, 6767 East Main Street, Stockton, California, said time being at least 72 hours in advance of the meeting of the Board of Directors of the Stockton East Water District (Government Code Section 54954.2).

Executed at Stockton, California on April 14, 2022.



Kristin Carido, Administrative Services Manager
Stockton East Water District

Any materials related to items on this agenda distributed to the Board of Directors of Stockton East Water District less than 72 hours before the public meeting are available for public inspection at the District's office located at the following address: 6767 East Main Street, Stockton, CA 95215. Upon request, these materials may be available in an alternative format to persons with disabilities.

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Satellite Evapotranspiration Project Report

Introduction

This document provides the numerical results of the Satellite Evapotranspiration Project. This is a draft deliverable of the analysis covered in Tasks 2-4 of this project. The purpose of this project was to estimate and produce monthly evapotranspiration (ET) and Net Groundwater Use/Recharge (Net-to-From Groundwater - NTFGW) for agricultural parcels within the boundary of Stockton East Water District (SEWD) for 2021. Stockton East Water District is located on the San Joaquin Valley floor in San Joaquin County, California, with the City of Stockton lying at its western end. The project area is shown in Figure 1. The California Water Service (Cal Water) and City of Stockton service areas, shown as solid in Figure 1, were excluded from estimations.

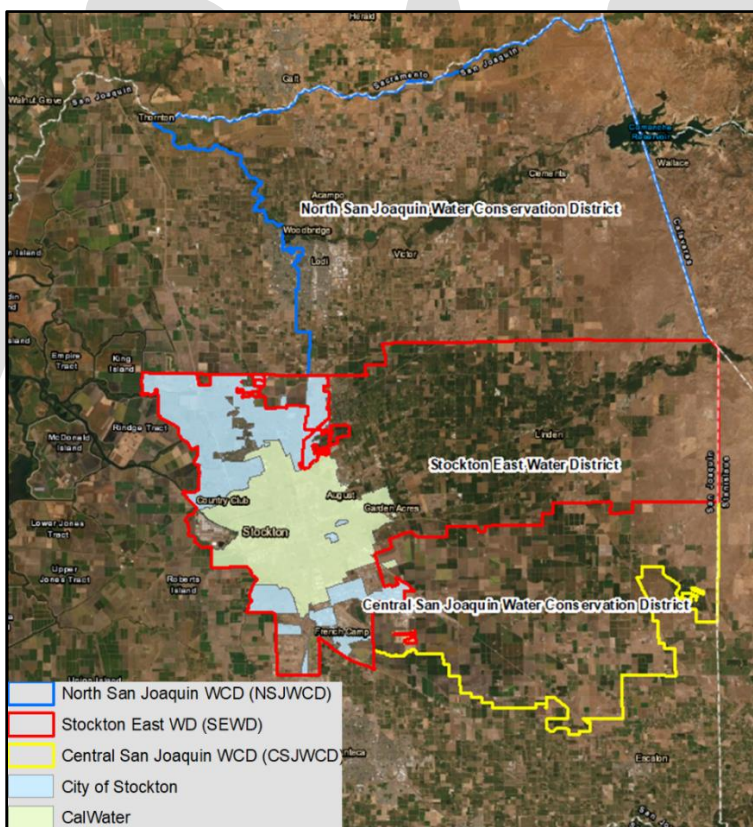


Figure 1. Stockton East WD (SEWD) is shown in red color boundary

A remote sensing model called eeMETRIC that estimates evapotranspiration (ET) from satellite imagery was used for this project. This model originated at the University of Idaho and was implemented by Desert Research Institute (DRI) as part of the OpenET project. SEWD provided the applied surface water delivery data for parcels that received surface water. The precipitation data and ET data were used to estimate the NTFGW on an annual basis at the parcel level.

Summary of Results

Table 1 shows the annual results for the study area.

Table 1 - 2021 Net Groundwater Use/Recharge in Acre Feet

Annual Pumping	134,958
Annual Recharge	17,615
Net Groundwater Use	117,342



The assumptions behind this data include no runoff (irrigation or non-irrigation). The ET was estimated monthly and applied against the annual surface water delivery at the parcel level. Figure 2 shows the annual NTFGW at the parcel level for the agricultural parcels in the SEWD service area. This data was summarized to produce data in Table 1.

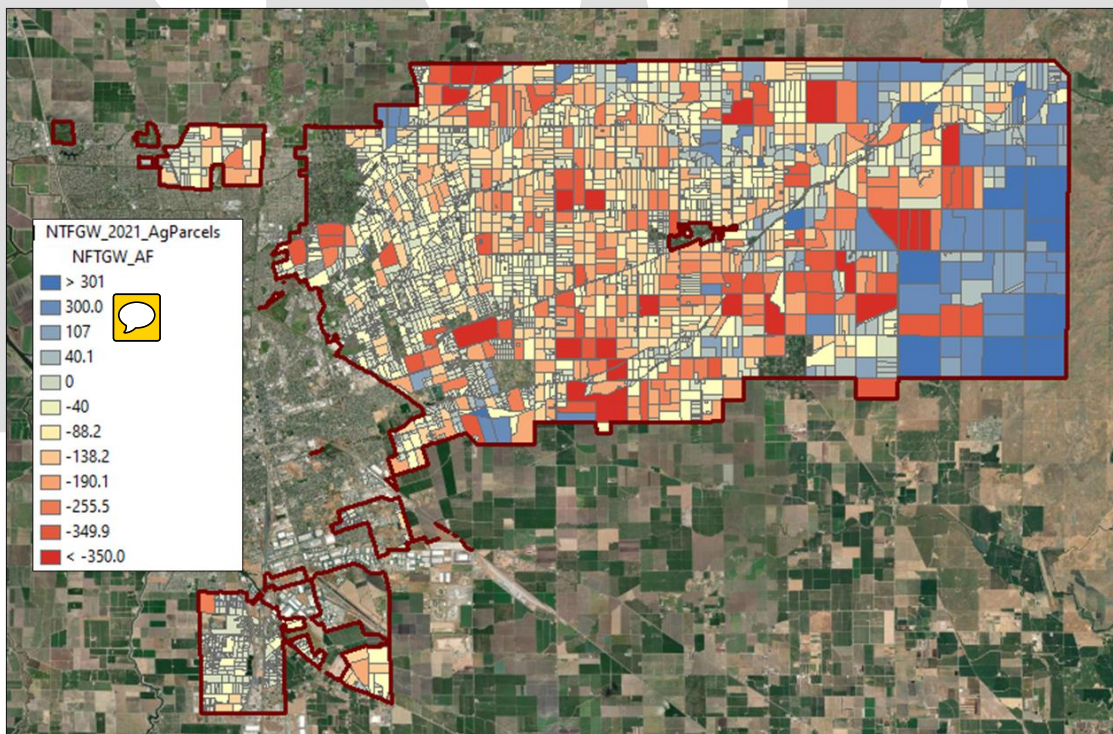


Figure 2. Estimated 2021 NTFGW (Net-to-From Groundwater) at parcel level: + NTFGW shows fields with GW recharge (when Supply > Demand), and - NTFGW shows fields with GW use/pumping (when Demand > Supply).

Approach

DCSE Inc. has used remote sensing-based models and high-resolution Landsat imagery to estimate ET and NTFGW at the parcel level. Together with an analytical tool used to display the model results, the model results are referred to as GROWMAS. A manual approach was used to produce the results for this project, but GROWMAS will be used to automate this process in the future. GROWMAS will be released at a later date.

ET Estimation

METRIC™ (Mapping Evapotranspiration at high resolution using Internalized Calibration) was used to estimate the ET. METRIC is a satellite image processing model designed as an operational, engineering approach to retrieving high-resolution ET images (30 meters) and was developed primarily to monitor water consumption at field scales. METRIC™ was developed by Dr. Rick Allen and his colleagues at the University of Idaho. ET in METRIC™ is calculated using the surface energy balance, where total net radiation energy from the sun and sky represents total energy available at the surface to either warm the air (H), warm the ground (G), or transform liquid water into vapor (LE). LE (Latent heat flux) is converted into ET, expressed as a depth of water per time (Figure 3).

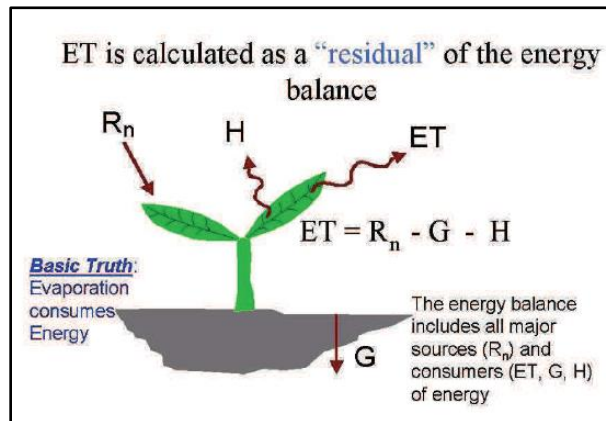


Figure 3 - The components of the Surface Energy Balance for ET: R_n = Net Radiation, G = Soil heat flux, H = Sensible heat flux

A few advantages of METRIC™ are:

- Calculates actual ET, which gives a more accurate estimation of water consumption and budgeting compared to traditional potential ET calculations, which use crop coefficients.
- METRIC™ does not require specification of crop types, irrigation method, or irrigation practices, thus reducing time and costs.
- Due to the frequency of Landsat images and weather data available for current and historical periods, ET values can be compared spatially and temporally to analyze water use trends. Figure 4 shows an example image of a high spatial resolution (30 m) ET in agricultural fields estimated from the Landsat imagery.



Figure 4 – Left: Landsat Image, Right: Calculated ET Image, at the instantaneous time of the satellite pass, 30m X 30m Pixel Sizes

eeMETRIC, a version of METRIC available from Open ET, was used to estimate the ET data.

Satellite Imagery

Multispectral Imagery from Landsat 7, 8, and 9 with 30 m spatial resolution (30 meters by 30 meters pixel sizes) are used for the eeMETRIC™ process. For this project, Imagery from Landsat 7 will be used as a backup if Landsat 8 and 9 data is missing. For Landsat 8 and 9, bands 2-7 provide data for the visible and near-infrared bands. Band 10 and Band 11 provide data for longwave (thermal) radiation. The eeMETRIC™ modeling process relies on surface temperature data from the Landsat thermal band 10.

The project area is covered by the Landsat image scenes from 3 different paths, rows (Figure 5). Actual ET cannot be computed for the regions covered by clouds or fog. The best quality Landsat images with minimal clouds are selected for processing.



Figure 5 - Example of three Landsat 8 scenes in July 2020, covering the project area

Weather Data

The eeMETRIC™ model also requires hourly weather station data, which "internally calibrates" the surface balance energy equation by computing reference ET values on the ground and focusing on agricultural landscapes. The following weather data are necessary:

- Wind speed at 2m (m/s)
- Precipitation (mm)
- Dew point Temperature (°C)
- Solar radiation (W/m²)
- Air temperature (°C)
- Relative Humidity (%)
- ETr (mm)

The eeMETRIC™ internally handled downloading and using the weather data for the ET calculation. The only data downloaded and used in the NTFGW calculation was the precipitation data.

NTFGW

NTFGW is the net contribution to or extraction from groundwater. By comparing applied water (surface water delivery or groundwater), precipitation, runoff, and evapotranspiration, NTFGW can be estimated for a region.

GROWMAS incorporates the monthly estimated ET values with monthly surface water delivery and pumping data (if available) and regional spatial precipitation to assess NTFGW and create groundwater

pumping and recharge maps for each month. One of the results obtained from the eeMETRIC includes the generation of the estimated ET at the pixel level for every month, as shown in Figure 6.

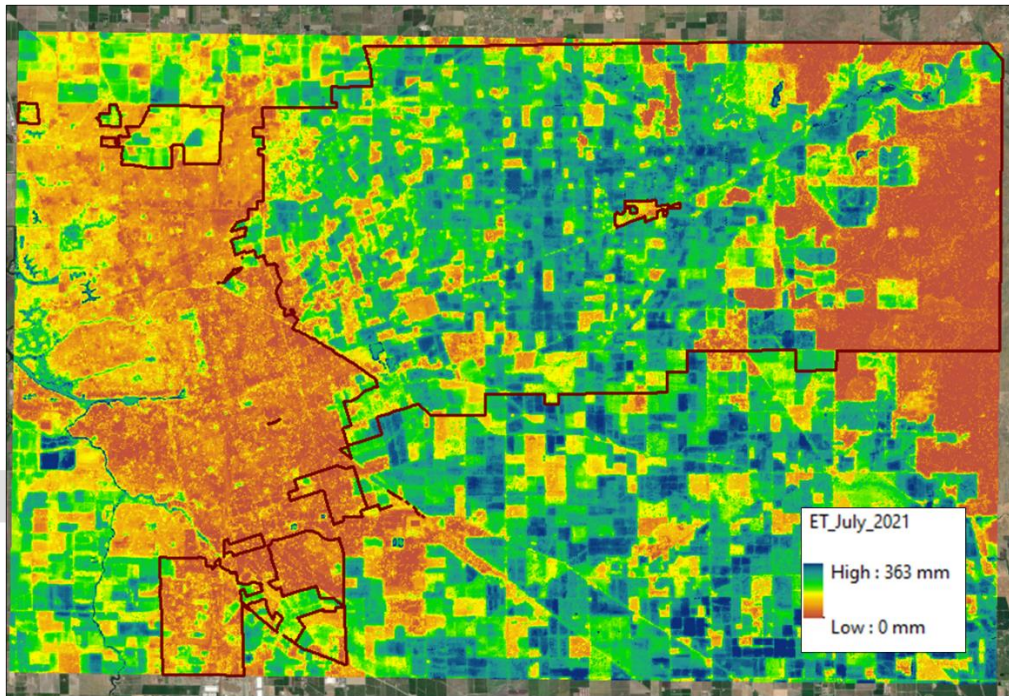


Figure 6. Estimated Evapotranspiration (ET) image for the month of July 2021. Raster image with 30m x 30m pixel size was estimated using Landsat imagery and METRIC model.

The first step to estimating the ET at the parcel level is to extract the ag parcels, as shown in Figure 7. These parcels were identified based on their zoning information.

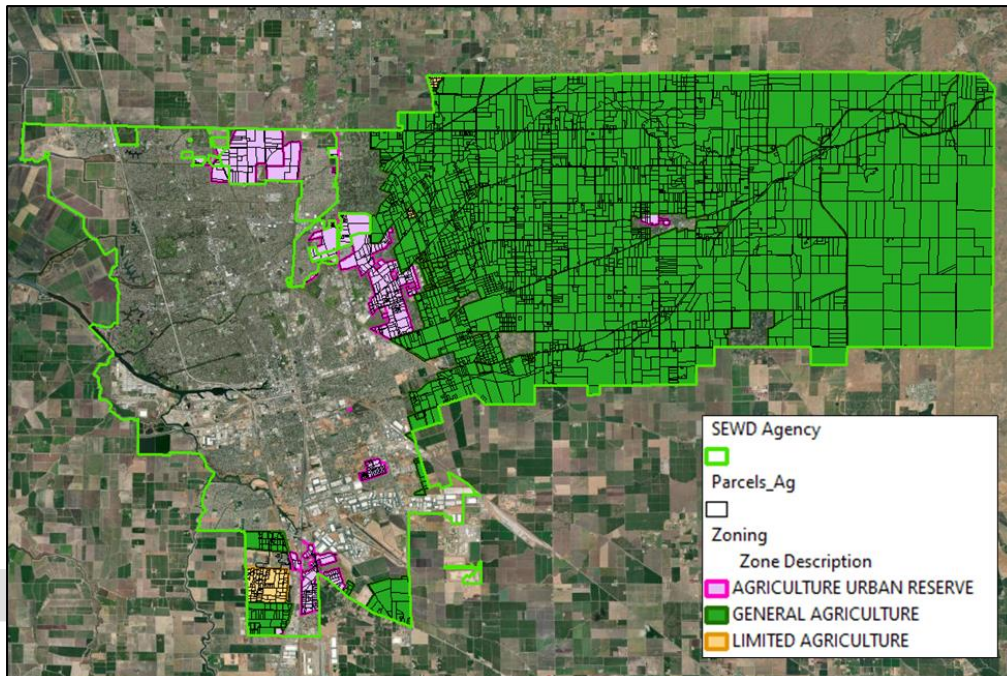


Figure 7. SEWD parcels located in Agricultural Zones were extracted by parcel estimation of ET and Groundwater.

The next step included the removal of the smaller ag parcels from the analysis, as shown in Figure 8.

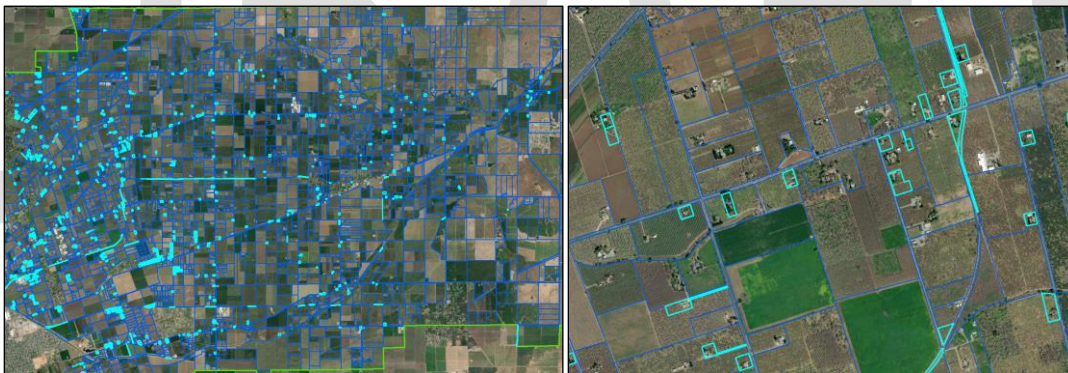


Figure 8. Ag parcels with areas less than 2 ac and sliver polygons were deleted from the analysis.

Once the parcel data was prepared, the mean of all pixel level ET for a given parcel was estimated using GIS tools. Figure 9 shows the monthly ET at the parcel level. Figure 10 shows the annual ET data for the 2021 calendar year.

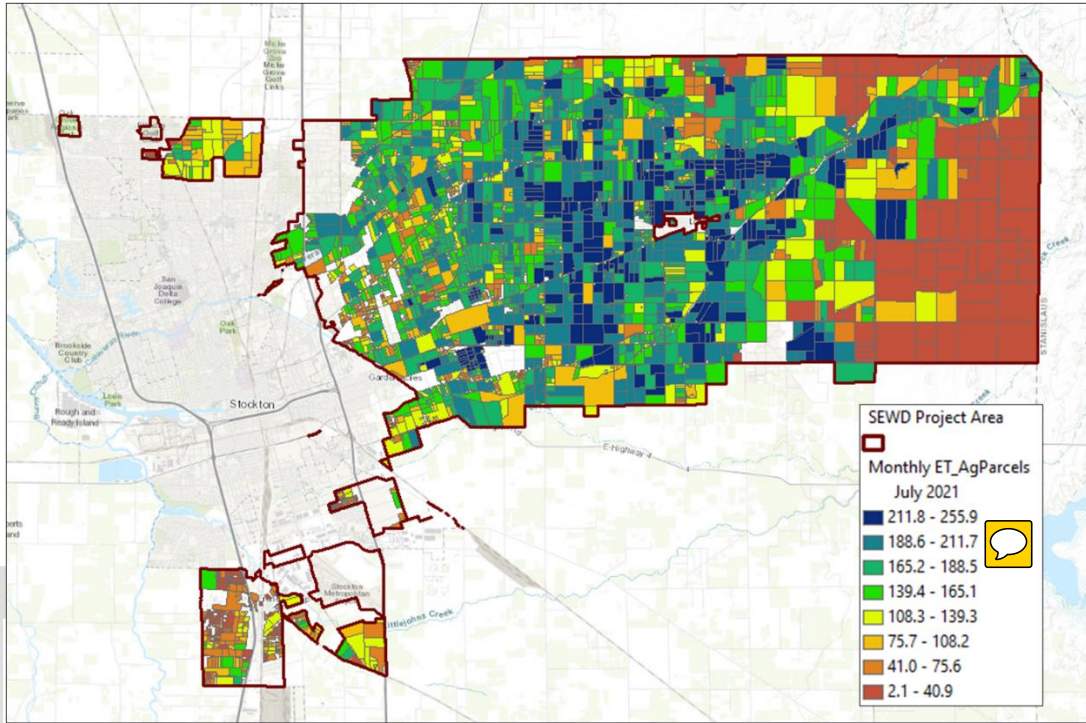


Figure 9. Estimated Monthly Evapotranspiration (ET) in mm, at parcel level for July 2021. ET values indicate the mean of all pixels within each parcel boundary.

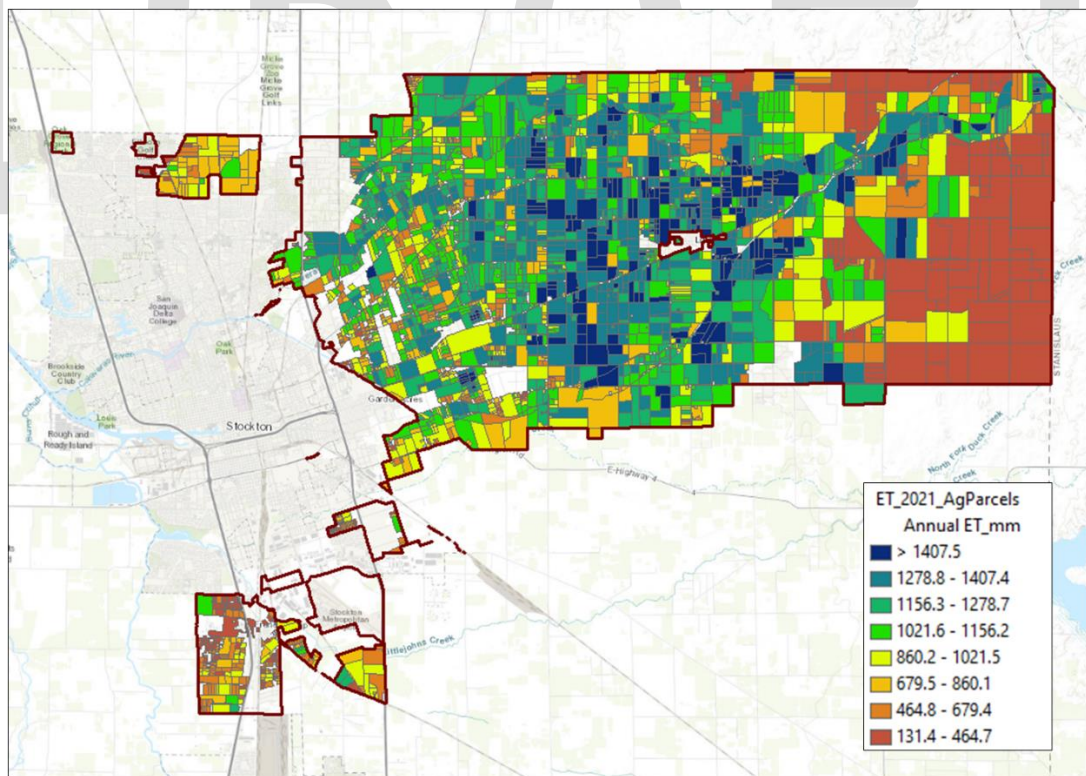


Figure 10. Estimated yearly Evapotranspiration (ET) in mm, at parcel level for 2021. Annual ET is the sum of parcel monthly ET values from Jan to Dec 2021.

NTFGW Estimation

NTFGW (Net-to-From Groundwater) is the net contribution to or extraction from groundwater. By comparing applied water (surface water delivery or groundwater), precipitation, runoff, and evapotranspiration, NTFGW can be estimated for a region (Figure 11).

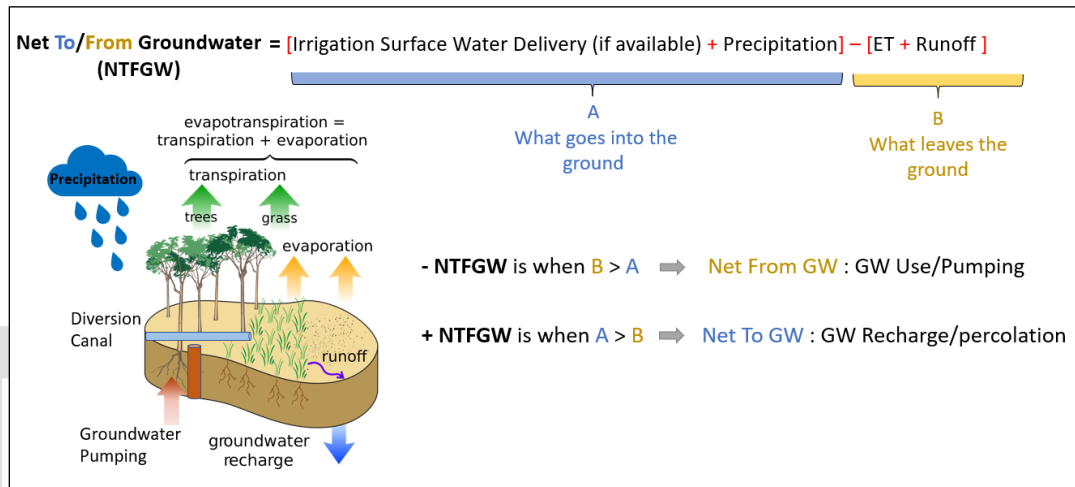


Figure 11. Remote estimation of Net-to-From Groundwater (NTFGW)

DCSE has incorporated the SEWD annual estimated ET values with annual surface water delivery (provided by SEWD) and spatial precipitation in the region to assess NTFGW and create a groundwater pumping and recharge map for 2021. In NTFGW estimation, it has been presumed that there is no Runoff from the parcels.

Surface water data at the parcel level and the Net Ag acres were provided to DCSE for several ag parcels (Figure 12, parcels shown in blue and orange colors). For the parcels without any provided surface water data (not included in the SEWD list of parcels), the assumption was that the surface water would be zero, and the net ET demand was met solely with groundwater.

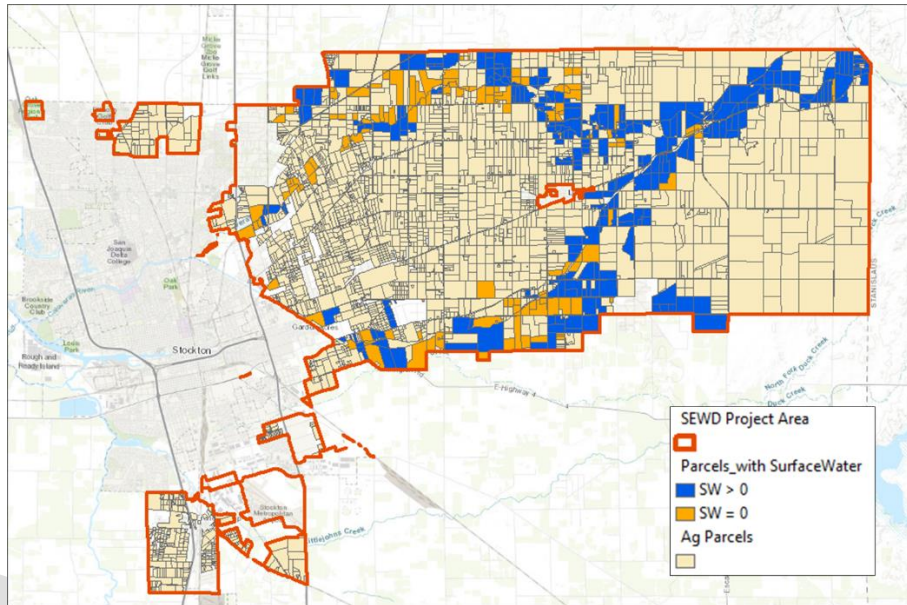


Figure 12. SEWD Ag parcels for ET and NTFGW estimation. Parcels with applied surface water delivery data provided by SEWD are also shown.

Precipitation data used in this project were obtained from [PRISM Climate Group](#). PRISM (Parameter elevation Regression on Independent Slopes Model) is an analytical model that uses point data and a digital elevation model (DEM) to generate gridded estimates of annual, monthly, and event-based climatic parameters. In-situ point measurements are ingested into the PRISM statistical mapping system. Monthly PRISM gridded datasets of precipitation and temperature for the U.S are available at 2.5 arcmin (4 km) resolution. PRISM is the USDA's official climatological data.

For the SEWD service area, the precipitation grid data, at 4km cell size, from Jan 2021 to Dec 2021 were downloaded. Next, mean precipitation (mm) was calculated at parcel- level for all the ag parcels within the SEWD boundary. Figure 13 below shows an example of the PRISM precipitation grid data for Nov 2021.



Figure 13. Precipitation grid data for Nov 2021

Results

Results of estimated monthly ET (mm) for several Ag parcels can be seen in Figure 14. This data for every Ag parcel (shown in Figure 12) and for 12 months were submitted in excel and GIS file formats.

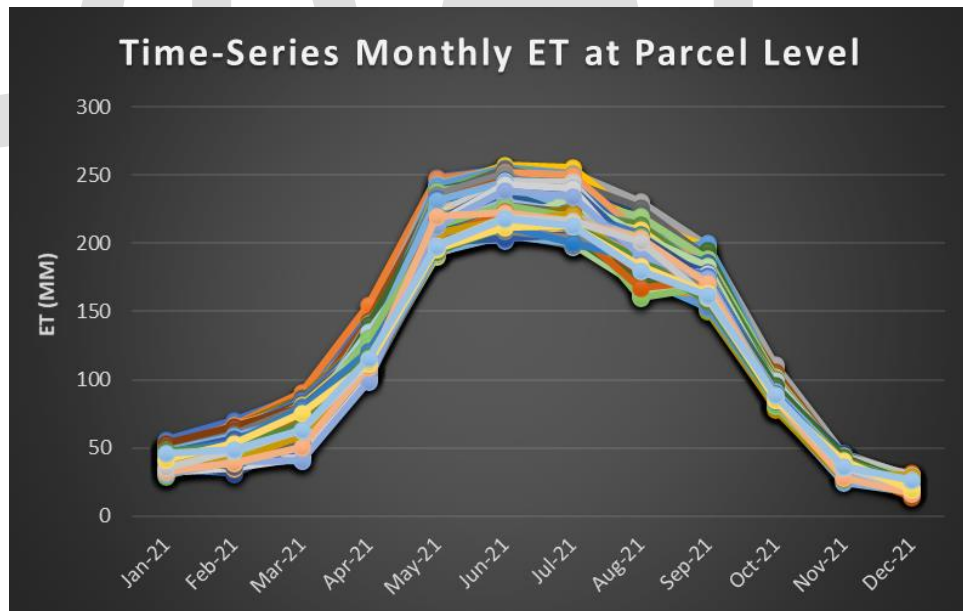


Figure 14. Estimated Monthly ET for several SEWD Ag parcels with the highest Monthly ET

Figure 15, shows the sum of monthly ET (mm) for all the Ag parcels in SEWD service area.

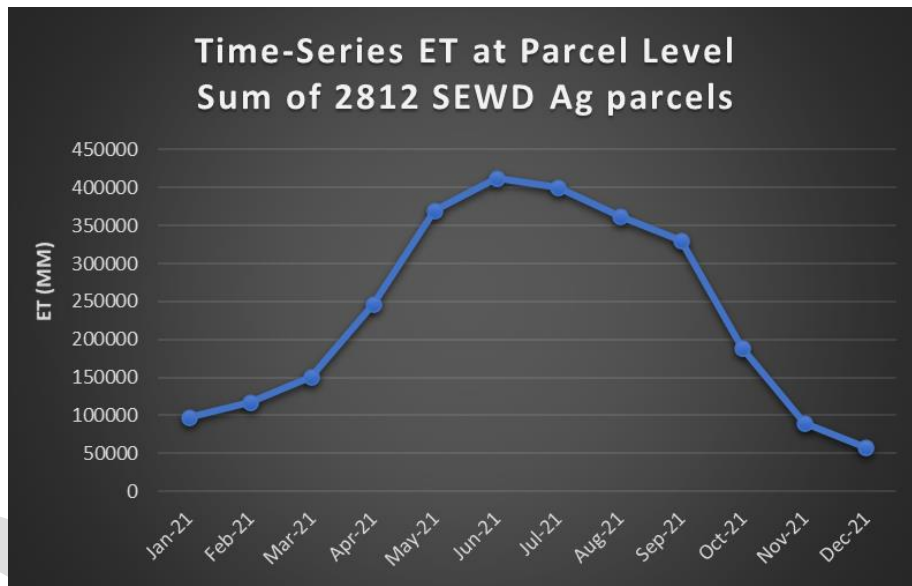


Figure 15. Time series monthly ET in all SEWD Ag parcels (sum of ET from 2812 Ag parcels)

Table 2, shows results of total ET and NTFGW for all the ag parcels within the SEWD district. Summary of the results at parcel level, were delivered to the district. Please refer to the Deliverables section of this document.

Table 2. Results at the district level for all Ag parcels (2812) in 2021 calendar year.

Results at District Level	
Total calculated area of all Ag parcels (Ac)	89146.2
Sum ET for all Ag parcels (AF)	282,039
Sum ET for all Ag parcels (mm)	2,825,231
Mean 2021 Precipitation for all Ag parcels (mm)	439
Annual Pumping (AF)	134,958
Annual Recharge (AF)	17,615



Net Groundwater Use (AF)	117,342
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Deliverables

Evapotranspiration Data

The estimated monthly and annual ET at the parcel level was submitted in GIS and Excel file formats:

- **ET_2021_AgParcels.xlsx**
 - Excel worksheet "ET_AG Parcels"*
 - The table includes the Monthly ET from Jan 2021 to Dec 2021 and the 2021 annual ET for 2812 agricultural parcels.
 - Monthly ET values are in mm, and Annual ET is in mm and acre-feet.
 - For annual ET in AF, the GIS Acre area was used.
 - Column "Acres_GIS" indicates the calculated geometry of the parcel area from the GIS parcel layer.
 - Excel worksheet "ET_XL Parcels"*
 - The table includes the Monthly ET from Jan 2021 to Dec 2021 and 2021 annual ET for 413 parcels with the surface water info DCSE has received from SEWD.
 - Monthly ET values are in mm, and the Annual ET is in mm and acre-feet.
 - The provided "Net Ag Acres" area for parcels was used for annual ET in AF.
- **ET_2021_AgParcels.shp**
 - This is a parcel shapefile layer including all ag parcels (2812) within the SEWD boundary with attribute fields for 14 months (Nov 2020 to Dec 2021) of ET in mm, annual ET in mm (ET_mm_2021), and annual ET in acre-feet (ET_AF_2021).
 - The attribute fields in the delivered layer are shown in Figure 16.

APN	Acres_GIS	Nov2020	Dec2020	Jan2021	Feb2021	Mar2021	Apr2021	May2021	Jun2021	July2021	Aug2021	Sep2021	Oct2021	Nov2021	Dec2021	ET_mm_2021	ET_AF_2021
19334009	9.806	24.333333	24.354167	36.5625	51.354167	51.625	69.291667	78.291667	77.854167	75.4375	68.479167	66.958333	51.3125	22.729167	19.229167	669.125	21.527225
19334013	4.902	20	21.625	34.166667	58.375	61.875	69.416667	67.458333	68.166667	73.708333	68.958333	67.25	52.291667	22.5	20.083333	664.25	10.683243
19334015	4.901	22.916667	23.291667	35.291667	45.25	54.583333	65.083333	68.333333	68.291667	72.625	69.166667	70.458333	54.5	23.833333	21.541667	648.958333	10.435808
19334017	4.899	24.25	23.166667	34.25	47.166667	56.958333	68	72.958333	70.333333	72.166667	67.708333	67.5	53.375	22.666667	21.416667	654.5	10.520608
19334019	4.768	17.148148	17.925926	28.296296	44.814815	58.296296	63.740741	58.592593	56.296296	58.851852	55.851852	52.259259	44.962963	21.888889	20.148148	564	8.822528
19333036	27.708	50.658228	34.113924	40.107595	45.962025	62.101266	108.905063	160.291139	179.335443	174.329114	154.689873	128.158228	68.765823	27.274811	23.525316	1173.449367	106.67458
19334003	64.005	35.514368	25.278736	35.117816	40.002874	51.568966	72.479885	104.014368	123.359195	126.086207	120.281609	114.327596	71.798851	30.201149	24.632184	913.87069	191.904392
19333019	8.537	42.372549	30.470588	38.901961	43.803922	58.392157	92	125.431373	134.882353	140.607843	128.019608	109.823529	57.235294	27.803922	21.764706	978.666667	27.409611
19334020	10.428	30.825397	27.206349	40.825397	51.492063	53.238095	67.015873	67.380952	66.761905	70.412698	83.587302	72.063492	55.190476	22.365709	18.793651	669.126984	22.893322
19334012	4.913	19.925926	20.259259	32.814815	49.333333	54.518519	70.185185	54.888889	49.888889	52.888889	62.703704	56.888889	48.888889	21.111111	17.259259	571.37037	9.209481
19334014	9.826	15.166667	16.055556	26.351852	46.722222	61.185185	68.018519	33.5	31.851852	35.888889	49.685185	42.962963	41.62963	21.907407	17.537037	477.240741	15.384552
19334016	4.917	20.407407	19.592593	29.555556	45.148148	57.296296	57.814815	39.555556	37.444444	42.037037	57.222222	50.333333	44.037037	22.925926	20.037037	503.407407	8.120501

Figure 16. Attribute fields in delivered parcel-ET GIS layer (ET_2021_AgParcels.shp)

Groundwater Data

The estimated 2021 NTFGW at parcel level was submitted in GIS and Excel file formats:

- **NTFGW_2021_AgParcels.xlsx**

Excel worksheet "Index"

- Includes description of all the columns in the next two worksheets

Excel worksheet "GW_AG Parcels"

- The table includes the calculated 2021 NTFGW for all 2812 agricultural parcels.
- NTFGW values are in mm and acre-feet.
- Acre feet values were calculated using the GIS Acre area of parcels (column: NTFGW_AF) and using the Net Ag Acre area (column: NTFGW_AF_AgAc).

Excel worksheet "GW_XL Parcels"

- The table includes the calculated 2021 NTFGW for 413 parcels with the surface water info DCSE has received from SEWD.
- Acre feet values were calculated using the Net Ag Acre area (column: NTFGW_AF_AgAc) provided to DCSE.

- **NTFGW_2021_AgParcels.shp**

- This is a parcel shapefile layer including all ag parcels (2812) within the SEWD boundary with attribute fields for annual NTFGW in mm (NTFGW_mm), in acre-feet (NTFGW_AF), and acre-feet using the SEWD Net Ag acres for provided parcels (GW_AF_AgAc).
- The attribute fields in the delivered layer are shown in Figure 17.

APN	Acres_GIS	ET_mm_2021	ET_AF_2021	ET_AF_AgAc	Precip_mm	NTFGW_mm	NTFGW_AF	GW_AF_AgAc	NTFGW_Comb	XLSheet	PumpID	NetAgAcres	Client_Nam
6301002	3.626	886.778	10.549	0	433.043	-453.735	-5.397	0	-5.4	N/A	N/A	0	N/A
6301004	24.372	1070.809	85.623	0	434.209	-636.6	-50.903	0	-50.9	N/A	N/A	0	N/A
6301005	3.741	977.824	12	0	436.136	-541.687	-6.648	0	-6.65	N/A	N/A	0	N/A
6303005	70.041	1218.509	280.007	276.443	442.195	601.304	138.176	136.418	136.42	Rest	MS-22B	69.15	COTTA & FERRE 9
6304008	6.263	792.879	16.293	0	433.043	-359.836	-7.394	0	-7.39	N/A	N/A	0	N/A
6304009	2.733	883.267	7.92	0	433.043	-450.224	-4.037	0	-4.04	N/A	N/A	0	N/A
6304011	69.454	1152.728	262.669	257.17	433.043	657.921	149.919	146.78	146.78	Rest	MS-22B	68	COTTA & FERRE 9
6304012	90.961	1144.821	341.647	279.595	433.525	686.323	198.849	162.733	162.73	Rest	MS-22B	74.44	COTTA & FERRE 9
6304013	7.929	1093.593	28.449	0	442.195	-651.397	-16.946	0	-16.95	N/A	N/A	0	N/A
6304018	34.261	834.269	93.776	0	433.043	-401.227	-45.1	0	-45.1	N/A	N/A	0	N/A
6304027	5.053	1047.16	17.36	0	433.043	-614.117	-10.181	0	-10.18	N/A	N/A	0	N/A
6304028	9.594	1100.94	34.653	0	433.043	-667.897	-21.023	0	-21.02	N/A	N/A	0	N/A
6304031	9.936	1126.39	36.717	0	433.043	-693.347	-22.601	0	-22.6	N/A	N/A	0	N/A
6304032	9.899	1187.586	38.57	0	433.043	-754.543	-24.506	0	-24.51	N/A	N/A	0	N/A

Figure 17. Attribute fields in delivered parcel-NTFGW GIS layer (NTFGW_2021_AgParcels.shp)

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THE REGULAR MEETING OF THE BOARD OF DIRECTORS
OF STOCKTON EAST WATER DISTRICT WAS HELD AT THE DISTRICT OFFICE
6767 EAST MAIN STREET, STOCKTON, CA
ON TUESDAY, APRIL 12, 2022 AT 12:30 P.M.

A. PLEDGE OF ALLEGIANCE AND ROLL CALL

President Watkins called the regular meeting to order at 12:30 p.m., and Director Cortopassi led the Pledge of Allegiance.

Present at roll call at the District were Directors Atkins, Cortopassi, McGaughey, McGurk, Sanguinetti and Watkins. Also present were Manager Moody, Assistant Manager Hopkins, Finance Director Vega, District Engineer Evensen, Administrative Services Manager Carido, Legal Counsel Zolezzi and Consultant Barkett. Present at roll call via teleconference was Director Panizza.

B. CONSENT CALENDAR (None)

C. PUBLIC COMMENT (None)

D. SCHEDULED PRESENTATIONS AND AGENDA ITEMS

1. Minutes 04/05/22 Regular Meeting

A motion was moved and seconded to approve the April 5, 2022 Regular Board Meeting minutes, as presented.

Roll Call:

Ayes: Atkins, Cortopassi, McGaughey, McGurk, Panizza, Sanguinetti, Watkins
Nays: None
Abstain: None
Absent: None

2. Warrants

- a. Fund 70 – Administration Fund
- b. Fund 71 – Water Supply Fund
- c. Fund 89 – Fish Passage Improvements Fund
- d. Fund 91 – Vehicle Fund
- e. Fund 94 – Municipal & Industrial Fund
- f. Summary
- g. Short Names/Acronym List
- h. SEWD Vehicles & Heavy Equipment

Director Atkins inquired on the expense on page 15, line item 96 for Calgon Carbon Corp., for carbon exchange filters 2, 4, 6 and 8, in the amount of \$376,091.09. Manager Moody replied next year another set of filters will be regenerated.

A motion was moved and seconded to approve the April 12, 2022 Warrants, as presented.

Roll Call:

Ayes: Atkins, Cortopassi, McGaughey, McGurk, Panizza, Sanguinetti, Watkins
Nays: None
Abstain: None
Absent: None

3. Dr. Joe Waidhofer Drinking Water Treatment Plant – Materials Testing and Special Inspection Services for Disinfection System Project Memo, 04/12/22

Manager Moody provided the Board with a Materials Testing and Special Inspection Services for Disinfection System Project Memo. District Engineer Evensen reported a pre-construction meeting is scheduled next week for the Disinfection System Project (Project). The memo includes additional services required to handle materials testing and special inspections for the Project. District Engineer Evensen reported staff solicited quotes from four consultants and received two; Terracon in the amount of \$49,274 and Condor in the amount of \$83,469. District Engineer Evensen reported the financial impact of materials testing and special inspections services as they were not included in previous project cost estimates provided by Carollo Engineers adding staff proposes to postpone the Low Lift Pump Station Slide Gate Replacement and Automation Project to this Fiscal Year to use a part of the \$300,000 funding to supplement materials testing and special inspection services costs. District Engineer Evensen reported staff recommends the Board authorize the General Manager to approve a Professional Services Agreement with Terracon to provide materials testing and special inspection services for the Project in the amount of \$49,274, plus a 10% contingency of \$4,927.40 for a total of \$54,201.

Director McGurk inquired if Terracon will absorb the costs if services exceed their proposal amount. District Engineer Evensen replied that is why a contingency is included, in the event more services are needed. Manager Moody added if an issue begins with the concrete received then additional tests will have to be conducted and is the reason why an independent consultant is required to confirm the District is receiving supply for how the Project was designed.

A motion was moved and seconded to authorize the General Manager to approve a Professional Services Agreement with Terracon to provide materials testing and special inspection services for the Project in the amount of \$49,274, plus a 10% contingency of \$4,927.40, for a total of \$54,201, as presented.

Roll Call:

Ayes: Atkins, Cortopassi, McGaughey, McGurk, Panizza, Sanguinetti, Watkins

Nays: None

Abstain: None

Absent: None

4. Paul M. & Connie L. Sanguinetti – Out of District Non-Potable Water Service Agreement

Manager Moody provided the Board with information on the Out of District Non-Potable Water Service Agreement for Paul M. & Connie Sanguinetti. Manager Moody reported all new Out of District Agreements are presented to the Board for approval. Director McGurk inquired on the changing rate of the cost of water annually. Manager Moody reported the Out of District rates are set every year and the Out of District Agreement customers pay the going rate each year.

A motion was moved and seconded to approve the Out of District Non-Potable Water Service Agreement for Paul M. & Connie L. Sanguinetti for APN 187-160-020, as presented.

Roll Call:

Ayes: Atkins, Cortopassi, McGaughey, McGurk, Panizza, Watkins

Nays: None

Abstain: Sanguinetti

Absent: None

E. COMMITTEE REPORTS

1. San Joaquin County & Delta Water Quality Coalition Meeting, 04/11/22
This meeting was cancelled.

F. REPORT OF GENERAL MANAGER

1. Water Supply Report as of 04/11/22
Manager Moody provided a handout of the Water Supply Report for information only that included storage, release, and production data collected from various sources as of midnight last night.

There is 131,856 AF in storage at New Hogan Reservoir. Current releases are set at 28 cfs. Current release at Goodwin Dam to Stanislaus River are set at 1,156 cfs and release to all water users are set at 62 cfs. The water treatment plant is currently processing 36 mgd. The City of Stockton is currently processing 6 mgd.

2. Information Items:
Manager Moody noted item: F2a-1, F2a-2 and F2a-3.
3. Report on General Manager Activities

Manager Moody reported on the status of the recruitment and search for a head-hunter. Manager Moody reported the District has contacted four and heard back from two, which we are awaiting one proposal. Manager Moody inquired with the Board that upon receipt of the proposal if it were okay to share the proposal with President Watkins. Director McGaughey inquired if the proposal should be shared with Legal Counsel Zolezzi too. Manager Moody replied yes especially if a contract has to be executed.

Consensus of the Board was to share the proposal with President Watkins upon receipt from the recruitment agency.

G. DIRECTOR REPORTS

1. Greater Stockton Chamber of Commerce Monthly Mixer – Midtown Optometry, 04/07/22
Nothing to report.

H. COMMUNICATIONS

1. Central San Joaquin Water Conservation District – SB 656 (Eggman) Letter of Support, 04/06/22
Manager Moody provided the Board with the April 6, 2022 Central San Joaquin Water Conservation District – SB 656 (Eggman) Letter of Support. Manager Moody reported the District also received a Letter of Support from Oakdale Irrigation District. This item was for information only.

I. AGENDA PLANNING/UPCOMING EVENTS

1. Eastern San Joaquin Groundwater Authority – Board of Director’s Meeting, 9:00 a.m., 04/13/22
2. AG Venture Days (Tracy, CA), 04/14/22
3. Eastern San Joaquin Groundwater Authority Technical Advisory Committee (TAC) Meeting, 04/14/22 9:30 a.m. - 11:30 a.m..
President Watkins reported the meeting is scheduled from 9:30 a.m. – 11:30 a.m.

4. CVP Water Association – Executive and Financial Affairs Committees Meeting, 10:00 a.m., 04/15/22
5. Stockton Area Water Suppliers (SAWS) Meeting, 1:00 p.m., 04/15/22

J. REPORT OF THE COUNSEL

1. Closed Session - Potential Litigation
Government Code 54956.9 (c) – one case
2. Closed Session - Existing Litigation
Stockton East Water District vs. City of Stockton, et al.
Government Code 54956.9 (a)

President Watkins adjourned the meeting to closed session at 1:50 p.m. to discuss closed session agenda items. The regular meeting reconvened at 1:07 p.m., with no reportable action.

K. ADJOURNMENT

President Watkins adjourned the meeting at 1:08 p.m.

Respectfully submitted,

Scot A. Moody
Secretary of the Board

kmc

**STOCKTON EAST WATER DISTRICT
INVOICES FOR BOARD PACKAGE
CALPERS SPECIAL CHECK REQUEST
APRIL 19, 2022**

Vendor name	District Fund#	Account #	Description	Amount	Invoice No.
1 CA Public Employees Retirement System (CalPERS)	70	10-5049-0	Retirement Contributions for Payroll 04/15/22-Admin	5,839.04	04/15/22 1245106351
			Total Fund 70 Admin	\$ 5,839.04	
1 CA Public Employees Retirement System (CalPERS)	71	10-5049-0	Retirement Contributions for Payroll 04/15/22-WS-NM	3,664.99	04/15/22 1245106351
2 CA Public Employees Retirement System (CalPERS)	71	10-5058-0	Retirement Contributions for Payroll 04/15/22-WS-NH	1,772.78	04/15/22 1245106351
			Total Fund 71 Water Supply	\$ 5,437.77	
1 CA Public Employees Retirement System (CalPERS)	94	10-5049-0	Retirement Contributions for Payroll 04/15/22-M&I	17,697.49	04/15/22 1245106351
			Total Fund 94 Municipal & Industrial	\$ 17,697.49	
Grand Total for Special Check Request on RBM 04/19/22				\$ 28,974.30	

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Memorandum

To: Scot A. Moody – General Manager
From: Justin Hopkins – Assistant General Manager
Date: 04/19/2022
Re: Calaveras River Fish Monitoring PIT Tag Pilot Project

BACKGROUND

On August 20, 2020, the Stockton East Water District's (District) Calaveras River Habitat Conservation Plan (CHCP) was approved. Beginning with the District's 2021 flashboard dam installation process, the CHCP requires the District's fisheries biologist, FISHBIO, to perform annual passage studies at the Mormon Slough flashboard dams.

SUMMARY

The annual passage study requires several FISHBIO staff to assess the size and quantity of fish passing downstream of the Mormon Slough flashboard dams via the installed fish notches. Due to continued drought, the District received approval from the National Marine Fisheries Service (NMFS) to close the fish notches early and omit the fish notch installations during 2021 and 2022, respectively. However, the estimated labor cost for FISHBIO to perform the passage study is \$13,000 annually.

During discussions between FISHBIO and District staff, the parties explored opportunities to decrease the ongoing, annual CHCP implementation costs. FISHBIO provided staff with a passive integrated transponder (PIT) tag pilot project to automatically detect and record flashboard dam fish passage. The pilot project is complimentary to PIT tagging efforts for the CHCP required life history study. The pilot project would be an alternative to the passage study methods described in the CHCP, so FISHBIO and staff consulted with NMFS during the previous semi-annual meeting. NMFS was amendable to a CHCP modification to allow use of the pilot project and indicated the pilot project is a preferred alternative since it reduces the handling of fish.

The pilot project includes a one-time capital investment estimated at \$24,000 and an annual labor cost of \$5,000. Given the estimated annual labor costs to perform the passage studies as currently described in the CHCP, the pilot project results in a three year return on investment. The purchased equipment can also be relocated to upstream locations during the winter to reduce labor costs for ongoing fisheries activities/studies. A labor savings estimate on winter time activities was not estimated, but would further reduce the return on investment timeframe.

NEXT STEPS

Pending no objections from the Board of Directors, District staff will work with NMFS to amend the CHCP and make all other necessary approvals for the FISHBIO pilot project to be deployed for the 2023 irrigation season.

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Resolution No. 22-23-01

A RESOLUTION OF THE BOARD OF DIRECTORS OF
STOCKTON EAST WATER DISTRICT

AUTHORIZATION TO FILE A GRANT APPLICATION WITH THE
DEPARTMENT OF INTERIOR UNITED STATES BUREAU OF RECLAMATION
FOR THE WATERSMART: SMALL-SCALE WATER EFFICIENCY PROJECTS (FUNDING NO.
R22AS00195) FOR FISCAL YEAR 2022, EXECUTE ANY REQUIRED DOCUMENTS AND
PROVIDE DELEGATION OF AUTHORITY

WHEREAS, the Board of Directors of the Stockton East Water District (District) desires to file a grant application with the Department of the Interior United States Bureau of Reclamation for the WaterSMART: Small-Scale Water Efficiency Projects (Funding No. R22AS00195) for the FY 22-23, \$208,000 budgeted Eight Mile Dam Replacement Project;

WHEREAS, the WaterSMART: Small-Scale Water Efficiency Project grant (Funding No. R22AS00195) limits the grant amount to \$100,000 and requires a 50% cost share, of which the District is obligated to pay \$100,000 towards the said project;

WHEREAS, the General Manager, Scot A. Moody of the Stockton East Water District is hereby authorized and directed to prepare the necessary data, conduct investigations, file such application, and execute a grant agreement with Department of the Interior United States Bureau of Reclamation; and

WHEREAS, the General Manager, Scot A. Moody of the Stockton East Water District and his designee of the Stockton East Water District are hereby authorized and delegated to submit reports, request for cost reimbursement, and conduct day-to-day business with Department of the Interior United States Bureau of Reclamation;

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Stockton East Water District that the grant application be made to the Department of the Interior United States Bureau of Reclamation to obtain a WaterSMART: Small-Scale Water Efficiency Project Grant (Funding No. R22AS00195), and to enter into an agreement to receive the grant.

PASSED AND ADOPTED at a regular meeting by the Board of Directors of the Stockton East Water District on the 19th day of April 2022 by the following vote of the members thereof:

- AYES:
- NAYES:
- ABSENT:
- ABSTAIN:

DRAFT

Andrew Watkins, President

ATTEST: **DRAFT**

Scot A. Moody
Secretary of the Board

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Board of Directors Meeting

AGENDA

Wednesday April 13, 2022

9:00 a.m. – 12:00 p.m.

Teleconference Only

Call-In Information Provided Below

- I. **Call to Order/Pledge of Allegiance & Safety Announcement/Roll Call** (*Please remember to keep your phone line muted and unmute when announcing yourself for attendance or speaking)
- II. **Scheduled Items -**
 - A. Discussion / Action Items:
 1. Approval of the March 9, 2022, Meeting Minutes ([Attachment 1 – Page 4](#))
 2. Discussion and Possible Action to Adopt Resolution R-22-XX Determining to Conduct Meetings Using Teleconferencing Pursuant to Government Code 54953 as Amended by AB 361 ([Attachment 2 - Page 16](#))
 3. GWA Committee Assignments
 4. FY 2022-23 Budget Discussion, Approach, Programs and Schedule
 5. DWR Comments and GWA Response - Status Report and Direction
 6. Funding and Financing Options
- III. **Staff/DWR Reports**
 - A. Staff Reports
 1. Legislation
 2. Executive Order N-7-22 ([Attachment 3 - Page 18](#))
 3. Grants and Funding
 - B. DWR Report ([Attachment 4 – Page 24](#))
- IV. **Directors’ Comments and Project Status Reports**
- V. **Public Comment (non-agendized items)**
- VI. **Future Agenda Items**
- VII. **Adjournment**

EASTERN SAN JOAQUIN GROUNDWATER AUTHORITY

Board of Directors Meeting

AGENDA

(Continued)

Next Regular Meeting

Wednesday, May 11, 2022

10:30 a.m. – 12:00 p.m.

Location TBD

Action may be taken on any item

Agendas and Minutes may also be found at <http://www.ESJGroundwater.org>

Note: If you need disability-related modification or accommodation in order to participate in this meeting, please contact San Joaquin County Public Works Water Resources Staff at (209) 468-3089 at least 48 hours prior to the start of the meeting.

Important Notice Regarding COVID 19 and Closure of Board Chambers to the Public During Eastern San Joaquin Groundwater Authority Board of Directors Meetings

On March 18, 2020, Governor Gavin Newsom issued Executive Order N-29-20 recognizing that COVID 19 continues to spread throughout our community resulting in serious and ongoing economic harm. Governor Newsom has therefore waived certain requirements of the Ralph M. Brown Act relating to public participation and attendance at public meetings.

Based on guidance from the California Department of Public Health and the California Governor's Officer, *effective immediately* and while social distancing measures are imposed, Board chambers will be closed to the public during the Eastern San Joaquin Groundwater Board of Directors Meetings.

In order to minimize the spread of the COVID 19 virus, the following options are available to members of the public to listen to these meetings and provide comments to the Board of Directors before and during the meeting:

1. You are strongly encouraged to listen to the Eastern San Joaquin Groundwater Authority Board of Directors meetings by attending the teleconference:

Microsoft Teams meeting

Join on your computer or mobile app

[Click here to join the meeting](#)

Or call in (audio only)

[+1 209-645-4071,,929131824#](#) United States, Stockton

Phone Conference ID: 929 131 824#

[Find a local number](#) | [Reset PIN](#)

[Learn More](#) | [Meeting options](#)



EASTERN SAN JOAQUIN GROUNDWATER AUTHORITY

JOINT AD HOC TECHNICAL ADVISORY AND LEGAL/POLICY COMMITTEES MEETING

Discussion Topics

Thursday, April 14, 2022

9:30 a.m. – 12:00 p.m.

Call-In Information Provided Below

Note to participants: Members of the public, most staff and other GSA/GWA persons may participate via the teleconference line only. Thank you for your understanding.

The purpose of this meeting is to:

- Debrief the April 4, 2022 meeting with DWR
- Finalize the approaches to corrective actions and work to prepare the draft response for GWA/GSA consideration.

A. Discussion

1. Review DWR meeting and raft Response
2. Discuss meeting results and work plan

B. Communications

C. Next Meeting and Future Agenda Items

D. Adjournment

NOTICE: Coronavirus COVID-19

Based on guidance from the California Department of Public Health and the Governor's Office, the Teleconference information below is being provided for your participation in the April 14th Technical Advisory Committee Meeting.

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Weekly Water Report	As of: April 11, 2022	As of: April 18, 2022
New Hogan (NHG) TOC	264,039	AF
Storage:	131,856	AF
Net Storage Change:	-235	AF
Inflow:	39	CFS
Release:	28	CFS
New Melones (NML) Allocation	75,000	AF
Storage:	927,387	AF
Net Storage change:	-2,341	AF
Inflow:	1,297	CFS
Release:	1,303	CFS
Source: CDEC Daily Reports		

Goodwin Diversion (GDW)		
Inflow (Tulloch Dam):	1,308	CFS
Release to Stanislaus River (S-98):	204	CFS
Release to OID (JT Main):	647	CFS
Release to SSJID (SO Main):	243	CFS
Release to SEWD:	<u>62</u>	CFS
Total Release	1,156	CFS
Source: Tri-Dam Operations Daily Report		
Farmington Dam (FRM)		
Diverted to SEWD:	N/A	CFS
Diverted to CSJWCD:	0	CFS
Source: USACE WCDS Hourly Report		

Surface Water Used		
Irrigators on New Hogan:	0	
Irrigators on New Melones:	0	
Out-Of-District Irrigators:	0	
DJWWTP Production:	36	MGD
North Stockton:	7	MGD
South Stockton:	7	MGD
Cal Water:	17	MGD
City of Stockton DWSP Production:	6	MGD

District Ground Water Extraction		
74-01	0	GPM
74-02	0	GPM
North	0	GPM
South	0	GPM
Extraction Well # 1	<u>0</u>	GPM
Total Well Water Extraction	0	GPM

Note: All flow data reported here is preliminary and subject to revision.

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SOUTH SAN JOAQUIN
IRRIGATION DISTRICT

April 13, 2022

Honorable Senator Susan Talamantes Eggman
1021 O Street, Suite 8530
Sacramento, CA 95814

Honorable Assemblymember Carlos Villapudua
State Capitol
P.O. Box 942849
Sacramento, CA 94249-0013

**SUBJECT: LETTER OF SUPPORT FOR SENATE BILL 656 (EGGMAN) – STOCKTON EAST
WATER DISTRICT: WATER RATE CAP REMOVAL**

Dear Senator Eggman and Assemblymember Villapudua,

On behalf of South San Joaquin Irrigation District (SSJID), I am pleased to convey our support for Senate Bill (SB) 656, which would remove the legislative cap on the agricultural groundwater rate of Stockton East Water District (SEWD) and enable them to raise revenues critical for successfully meeting the requirements of the Sustainable Groundwater Management Act (SGMA). SSJID is part of the South San Joaquin Groundwater Sustainability Agency (SSJGSA) along with our partners, the Cities of Escalon and Ripon. The SSJGSA and SEWD are two of the sixteen member agencies of the Eastern San Joaquin Groundwater Authority which spans most of San Joaquin and parts of Calaveras and Stanislaus Counties.

SB 656, as proposed, would remove the legislative rate cap imposed solely upon agricultural groundwater customers in SEWD. The legislation does not affect any other rates within SEWD, and would not make any changes to municipal rates. Importantly, any rate increases would be required to comply with California Law, including Propositions 218 and 26.

While virtually every other agricultural and groundwater management agency within the State of California has the ability to lawfully raise its groundwater extraction rates in compliance with State laws, SEWD is prohibited from doing so by archaic legislative provisions. Such restrictions render SEWD unable to implement projects needed to achieve sustainability. SSJID supports SB 656 in hopes of giving the SEWD Board of Directors the ability to appropriately meet the requirements of SGMA to the benefit of our collective efforts in the Eastern San Joaquin Groundwater Basin to achieve sustainability.

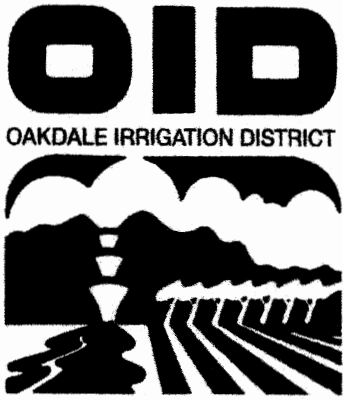
Thank you for your consideration on the matter. For the reasons above, SSJID is pleased to support Senate Bill 656. Should you have any questions, please contact us.

Sincerely,
SOUTH SAN JOAQUIN IRRIGATION DISTRICT



ROBERT HOLMES, PRESIDENT
Board of Directors

cc: Stockton East Water District



April 12, 2022

Honorable Senator Susan Talamantes Eggman
State Capitol, Room 4052
Sacramento, CA 95814

Re: SB 656 (Eggman) – Stockton East Water District Water Rate Cap Removal

Dear Senator Eggman,

On behalf of the Oakdale Irrigation District (OID), I write in support of your bill, Senate Bill 656, which would remove a cap on the rates of Stockton East Water District (District) and allow the District to raise revenues to comply with the Sustainable Groundwater Management Act (SGMA). The District and OID are both member agencies of the Eastern San Joaquin Groundwater Subbasin Groundwater Authority, which prepared and implements one Groundwater Sustainability Plan for the entire subbasin.

SB 656 proposes to remove a legislative rate cap imposed solely upon agricultural rates in 1971. The legislation does not affect any other rates within the District, and would not make any changes to municipal rates. Any future rate increases would be required to comply with California Law, including Proposition 218 and 26.

While virtually every other agricultural-related Special District within the State of California has the ability to lawfully raise its groundwater extraction rates in compliance with State laws, Stockton East Water District is prohibited from doing so by archaic provisions in the legislation governing its operations. Such restrictions render the District unable to raise the funds necessary to implement projects needed to achieve sustainability. The OID supports SB 656 to give Stockton East Water District's Board of Directors the ability to manage their organization appropriately and in compliance with SGMA for the benefit of the Eastern San Joaquin Groundwater Subbasin.

If OID can be of any further assistance, please do not hesitate to contact me at (209) 840-5525.

Sincerely,

OAKDALE IRRIGATION DISTRICT

Eric C. Thorburn, P.E.
Water Operations Manager/District Engineer

cc: Stockton East Water District

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North San Joaquin Water Conservation District

Board of Directors:

Joe Valente (Area 3) President
Tom Flinn (Area 2) Vice-President
David Simpson (Area 1) Secretary
Charles Starr (Area 4) Treasurer
Marden Wilbur (Area 5)

PO Box E, Victor, CA 95253
498 East Kettleman Lane, Lodi, CA
209.368.2101 nsjgroundwater.org

Jennifer Spaletta, General Counsel
Roger Masuda, Special Counsel
Daniel deGraaf, District Engineer
Shasta Burns, Deputy Secretary

April 6, 2022

Honorable Senator Susan Talamantes Eggman
State Capitol, Room 4052
Sacramento, CA 95814

Re: SB 656 (Eggman) – Stockton East Water District: water rate cap removal

Dear Senator Eggman,

On behalf of The North San Joaquin Water Conservation District, I write in support of your bill, Senate Bill 656, which would remove a cap on the rates of Stockton East Water District to allow the District to raise revenues to comply with the Sustainable Groundwater Management Act (SGMA).

SB 656 proposed to remove a legislative rate cap imposed solely upon agricultural rates in 1971. The legislation does not affect any other rates within the District, and would not make any changes to municipal rates. Importantly, any rate increases would be required to comply with California Law, including Proposition 218 and 26.

While virtually every other agricultural related Special District within the State of California has the ability to lawfully raise its groundwater extraction rates in compliance with State laws, Stockton East Water District is prohibited from doing so by archaic provisions in the legislation governing its operations. Such restrictions render the District unable to implement projects needed to achieve sustainability. My organization supports SB 656 to give Stockton East Water District's Board of Directors the ability to manage their organization appropriately and in compliance with SGMA for the benefit of the Eastern San Joaquin Groundwater Basin.

For these reasons, The North San Joaquin Water Conservation District is pleased to support Senate Bill 656. Please feel free to contact me if you have any questions.

Sincerely,



JOE VALENTE
NSJWCD Board President

cc: Stockton East Water District

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