

# **SOUTHWEST KINGS GROUNDWATER SUSTAINABILITY AGENCY**

944 Whitley Avenue, Suite E, Corcoran, CA 93212  
559-762-7240 [www.swkgsa.org](http://www.swkgsa.org)

## **AGENDA REGULAR MEETING OF THE BOARD OF DIRECTORS**

**December 4, 2020**

**9:00 a.m.**

**944 Whitley Avenue, Suite E  
Corcoran, CA 93212**

**Per Executive Order N-29-20, which allows local and state legislative bodies to hold meetings via teleconference and to make meetings accessible electronically, this Southwest Kings GSA Board of Directors meeting will be accessible via Zoom and dial in at:**

### **Join Zoom Meeting**

<https://us02web.zoom.us/j/4510356465?pwd=TKJmSnJ5aHBITk1OW5wV0oyLOJXZz09>

**Meeting ID: 451 035 6465**

**Passcode: 246**

**Dial in: +1 669 900 9128 US**

The public may participate in the meeting as otherwise permitted under the Brown Act by calling into the telephone number above. Any member of the public may address the SWKGSA Board of Directors concerning any item on the agenda before or during its consideration of that matter, as appropriate.

**CALL TO ORDER**      9:00 a.m.

**ROLL CALL**             Steve Jackson, Chair  
Mark Grewal  
Kimberly Brown  
Bernard Puget  
Jim Wilson

### **PUBLIC COMMENT**

The Board of Directors welcomes participation in Board meetings. The public may address matters under the jurisdiction of the Board that have not been posted in the Agenda. However, California Law prohibits the Board from taking action on any matter that is not on the posted Agenda unless the Board determines that it is an emergency or one of the other situations specified in Government Code section 54954.2. The public will be given the opportunity to address the Board on any item on the Agenda at this time or before the Board's consideration of that item. If members of the public desire to address the Board relative to a particular Agenda item at the time it is to be considered, they should so notify the Chairman of the Board at this time. The Chairman may limit the total amount of time allocated for public testimony on particular issues for each individual speaker.

### **POTENTIAL CONFLICTS OF INTERESTS**

*(Any Board member who has a potential conflict of interest may now identify the item and recuse himself from discussing and voting on the matter.)* [FPPC § 87105.]

### **CONSENT CALENDAR**

Consent calendar items will be voted on together by a single motion unless separate action is requested by a Board member, staff or member of the public.

1. Minutes of the Regular Board Meeting held on October 2, 2020.
2. Warrants and Finances (09/29/20 – 11/30/20)

3. Treasurer's Report

**ACTION CALENDAR**

4. Consider for discussion and possible action to approve Liability Insurance for SWKGSA.
- a. Report by Executive Director
  - b. Discussion
  - c. Public comments/questions
  - d. If desired, motion to amend
5. Consider for discussion and possible action to approve the **Land IQ Scope of Work Proposal** for calculation of ET consumptive use in the Tulare Lake Subbasin.
- a. Report by Executive Director
  - b. Discussion
  - c. Public comments/questions
  - d. If desired, motion to amend
6. Consider for discussion and possible action to approve a Letter of Support for Tri-County Water Authority's Liberty Project.
- a. Report by Executive Director
  - b. Discussion
  - c. Public comments/questions
  - d. If desired, motion to amend

**COMMUNICATIONS/DISCUSSION ITEMS**

7. **Director's Reports/Comments/Suggestions**

8. **Reports of General Interest**

- 1.) Tulare Lake Subbasin Update – Deanna Jackson / Amer Hussain
- 2.) California Strategies Update – David Armanasco / Rusty Areias
- 2.) Legal Counsel Report – Pam Silkwood
  - a. Tolling agreement with Westlands Water District GSA
- 3.) Other Updates, as appropriate

**ADJOURNMENT**

9. Adjourn to the next Board Meeting, scheduled on February 5, 2020 at 10:00 a.m., at the 944 Whitley Avenue, Corcoran or as otherwise directed by the Board.

❖ Items on the Agenda may be taken in any order.

- ❖ Action may be taken on any item listed on the Agenda.
- ❖ Writings relating to open session Agenda items that are distributed to members of the Board of Directors will be available for inspection at the Authority office, excluding writings that are not public records or are exempt from disclosure under the California Public Records Acts.

**Americans with Disabilities Act of 1990:** Under this act, a qualifying person may request that the Authority provide a disability-related modification or accommodation in order to participate in any public meeting of the Authority. Such assistance includes alternative formats for the agendas and agenda packets used for any public meetings of the Authority. Requests for assistance shall be made in person, via telephone, or in written form to the SOUTHWEST KINGS GROUNDWATER SUSTAINABILITY AGENCY Office at 944 Whitley Avenue, Suite E, Corcoran, CA 93212 (559) 762-7240. Requests must be received at least 48 hours prior to a scheduled public meeting.

**SOUTHWEST KINGS GROUNDWATER SUSTAINABILITY  
AGENCY  
REGULAR BOARD MEETING  
MINUTES  
October 2, 2020**

The Board of Directors of the Southwest Kings Groundwater Sustainability Agency met in the second-floor conference room, 944 Whitley Avenue, Corcoran, California, on Friday, October 2, 2020 at the hour of 10:00 a.m.

Chair Steve Jackson presided and Executive Director Jackson kept the minutes.

**DIRECTORS PRESENT:** Steve Jackson  
Mark Grewal  
Kimberly Brown  
Bernard Puget \*joined the meeting after item #3  
Jim Wilson

**DIRECTORS ABSENT:** None

**OTHERS PRESENT:** Pam Silkwood, General Counsel, Horan Lloyd  
Rusty Areias, California Strategies  
Sonja Theide, KRCD  
Riley Jones, Tulare Lake Compost  
Michael Cuttone, Cuttone & Mastro  
Ann Heil, LA County Sanitation District

Chair Jackson called the meeting to order at 10:02 a.m.

**PUBLIC COMMENT**

None offered

**CONSENT CALENDAR**

- 1-3.** Upon the motion of Director Grewal and the second of Director Wilson, the following items on the consent calendar were approved. (4-0-1)
1. Minutes of the Special Board Meeting held on July 28, 2020.
  2. Warrants and Finances (07/24/20 – 09/28/20)
  3. Treasurer's Report

## **ACTION CALENDAR**

4. **Consider for discussion and possible action to amend Southwest Kings Groundwater Sustainability Agency's POLICY FOR THE INSTALLATION, MAINTENANCE, AND MONITORING OF WATER METERS FOR WELLS WITHIN THE SOUTHWEST KINGS GROUNDWATER SUSTAINABILITY AGENCY.**

Ms. Jackson suggested changes to align SWKGSA's adopted meter policy more closely to the meter policy that was adopted by Tri-County Water Authority. The two changes recommended were (1) reporting meter readings bi-annually and (2) providing calibration certification reports every four years beginning in 2022. On the motion of Director Grewal and the second of Director Brown, the amendments to the meter policy were approved. (5-0-0)

5. **Consider for discussion and possible action approval of the DRAFT BUDGET FOR 2021 TULARE LAKE SUBBASIN.**

Ms. Jackson presented the proposed 2021 Budget for the Tulare Lake Subbasin. This budget includes the preparation of the annual report, an update to the data management system, grant writing costs, and possible coordination with DWR. Director Brown suggested that the cost share agreement between GSAs in the TL Subbasin should be revisited and updated when appropriate. On the motion of Director Grewal and the second of Director Wilson, the 2021 Tulare Lake Subbasin Budget was approved. (5-0-0)

## **COMMUNICATIONS/DISCUSSION ITEMS**

6. **Director's Reports/Comments/Suggestions**

None

7. **Reports of General Interest**

- 1.) **Tulare Lake Subbasin Update – Deanna Jackson**

KRCD has been contracted by the GSAs in Tulare Lake Subbasin for subsidence data collection and is currently collecting the fall 2020 data. Geosyntec is collecting the fall 2020 groundwater levels for SWKGSA. The annual reporting will be changed from a calendar year to a water year. The drafting of a coordination agreement and changes to the cost share agreement have not moved forward.

- 2.) **Legal Counsel Report – Pam Silkwood**

- a. Tolling agreement with Westlands Water District GSA

The agreement has been extended to January 30, 2021. Mr. Hussain added that technical discussions between the parties and their consultants are ongoing and have been positive. The parties continue to work towards a boundary monitoring and conditions agreement.

- 3.) Other Updates, as appropriate  
No other updates were given

**ADJOURNMENT**

8. There being no further business to come before the Board on the occasion of the October 2, 2020 meeting, Director Jackson adjourned the meeting until the next Regular Meeting to be held on December 4, 2020 at 10:00 a.m., at 944 Whitley Avenue, Corcoran or as otherwise directed by the Board.

Attest:

\_\_\_\_\_  
Kimberly M. Brown, Secretary-Treasurer

\_\_\_\_\_  
Steve Jackson, Chair

# Southwest Kings Groundwater Sustainability Agency

## CHECK DETAIL

September 28 - November 30, 2020

DATE	TRANSACTION TYPE	NUM	NAME	MEMO/DESCRIPTION	CLR	AMOUNT
<b>101 Checking</b>						
10/15/2020	Check	SVCCHRG		Service Charge Account analysis fee - September	R	-713.68 713.68
<b>Bill.com Money Out Clearing</b>						
10/02/2020	Bill Payment (Check)		Provost & Pritchard Consulting Group	Inv #80811-- bill.com Check Number: 47177824		-210.00 -210.00
10/02/2020	Bill Payment (Check)		M. Green and Company, LLP	Inv #144969-- bill.com Check Number: 47166298		-850.00 -850.00
10/02/2020	Bill Payment (Check)		Tri County Water Authority	Inv #361-- bill.com Check Number: 47197177		-7,000.00 -7,000.00
10/02/2020	Bill Payment (Check)		Horan Lloyd	Inv #21532 & 21696-- bill.com Check Number: 47177275		-1,153.50 -1,153.50
10/02/2020	Bill Payment (Check)		Geosyntec Consultants, Inc.	Inv #32412182-- bill.com Check Number: 47196902		-5,651.10 -5,651.10
10/16/2020	Bill Payment (Check)		Tri County Water Authority	Inv #363-- bill.com Check Number: 47589834		-7,000.00 -7,000.00
11/03/2020	Bill Payment (Check)		California Strategies and Advocacy, LLC	Inv #0920119-- bill.com Check Number: 48053895		-3,600.00 -3,600.00
11/03/2020	Bill Payment (Check)		Horan Lloyd	Inv #21932-- bill.com Check Number: 48039338		-55.00 -55.00
11/16/2020	Bill Payment (Check)		California Strategies and Advocacy, LLC	Inv #1020096-- bill.com Check Number: 48413986		-3,600.00 -3,600.00
11/16/2020	Bill Payment (Check)		Horan Lloyd	Inv #22115-- bill.com Check Number: 48391041		-461.00 -461.00
11/16/2020	Bill Payment (Check)		Geosyntec Consultants, Inc.	Inv #32415193-- bill.com Check Number: 48400995		-1,616.59 -1,616.59

**Note**

No assurance is provided on these financial statements.

# Southwest Kings Groundwater Sustainability Agency

## BALANCE SHEET - BOARD REPORT

As of November 30, 2020

	TOTAL
<b>ASSETS</b>	
Current Assets	
Bank Accounts	
101 Checking	66,857.73
102 LAIF	297,812.07
<b>Total Bank Accounts</b>	<b>\$364,669.80</b>
Accounts Receivable	
Accounts Receivable	4,018.73
<b>Total Accounts Receivable</b>	<b>\$4,018.73</b>
<b>Total Current Assets</b>	<b>\$368,688.53</b>
<b>TOTAL ASSETS</b>	<b>\$368,688.53</b>
<b>LIABILITIES AND EQUITY</b>	
Liabilities	
Current Liabilities	
Accounts Payable	
Accounts Payable	14,599.53
<b>Total Accounts Payable</b>	<b>\$14,599.53</b>
<b>Total Current Liabilities</b>	<b>\$14,599.53</b>
<b>Total Liabilities</b>	<b>\$14,599.53</b>
Equity	
Retained Earnings	481,490.56
Net Income	-127,401.56
<b>Total Equity</b>	<b>\$354,089.00</b>
<b>TOTAL LIABILITIES AND EQUITY</b>	<b>\$368,688.53</b>

**Note**

No assurance is provided on these financial statements.



# Southwest Kings Groundwater Sustainability Agency

## PROFIT & LOSS BUDGET VS. ACTUALS

January - November, 2020

	TOTAL			
	ACTUAL	BUDGET	OVER BUDGET	% OF BUDGET
<b>Income</b>				
401 Benefit Assessment	91.47	136,772.00	-136,680.53	0.07 %
<b>Total Income</b>	<b>\$91.47</b>	<b>\$136,772.00</b>	<b>\$ -136,680.53</b>	<b>0.07 %</b>
<b>GROSS PROFIT</b>	<b>\$91.47</b>	<b>\$136,772.00</b>	<b>\$ -136,680.53</b>	<b>0.07 %</b>
<b>Expenses</b>				
501 Management	37,462.97	50,000.00	-12,537.03	74.93 %
502 Accounting	1,250.00		1,250.00	
503 Legal	14,483.65	20,000.00	-5,516.35	72.42 %
504 Clerical	407.84	6,000.00	-5,592.16	6.80 %
506 Website	1,984.74	2,000.00	-15.26	99.24 %
507 Audit	3,785.00	5,000.00	-1,215.00	75.70 %
520 GSP	17,382.29		17,382.29	
520-1 Budget Overrun		30,000.00	-30,000.00	
520-2 Annual Report		15,000.00	-15,000.00	
520-3 Monitoring/DMS	1,861.86	20,000.00	-18,138.14	9.31 %
520-4 Grant Applications/Admin		15,000.00	-15,000.00	
<b>Total 520 GSP</b>	<b>19,244.15</b>	<b>80,000.00</b>	<b>-60,755.85</b>	<b>24.06 %</b>
530 Dues	7,500.00		7,500.00	
540 Contingency		33,000.00	-33,000.00	
580 Outside Services				
580.1 Consulting	18,000.00		18,000.00	
580.2 Engineering	16,898.35		16,898.35	
580.3 Management Fees	35,000.00		35,000.00	
<b>Total 580 Outside Services</b>	<b>69,898.35</b>		<b>69,898.35</b>	
590 Other	1,103.36		1,103.36	
<b>Total Expenses</b>	<b>\$157,120.06</b>	<b>\$196,000.00</b>	<b>\$ -38,879.94</b>	<b>80.16 %</b>
<b>NET OPERATING INCOME</b>	<b>\$ -157,028.59</b>	<b>\$ -59,228.00</b>	<b>\$ -97,800.59</b>	<b>265.13 %</b>
<b>Other Income</b>				
490 Interest	2,030.03	4,000.00	-1,969.97	50.75 %
495 Miscellaneous	27,597.00		27,597.00	
<b>Total Other Income</b>	<b>\$29,627.03</b>	<b>\$4,000.00</b>	<b>\$25,627.03</b>	<b>740.68 %</b>
<b>NET OTHER INCOME</b>	<b>\$29,627.03</b>	<b>\$4,000.00</b>	<b>\$25,627.03</b>	<b>740.68 %</b>
<b>NET INCOME</b>	<b>\$ -127,401.56</b>	<b>\$ -55,228.00</b>	<b>\$ -72,173.56</b>	<b>230.68 %</b>

**Note**

No assurance is provided on these financial statements.

# LAND IQ ET – A DATA DRIVEN METHOD FOR EVAPOTRANSPIRATION AT THE FIELD LEVEL – TULARE LAKE SUBBASIN

**PREPARED FOR:** Tulare Lake Subbasin GSA Managers

**PREPARED BY:** Joel Kimmelshue/Land IQ  
Zhongwu Wang/Land IQ  
Frank Anderson/Land IQ  
Seth Mulder/Land IQ  
Casey Gudel/Land IQ

**DATE:** October 19, 2020

## INTRODUCTION

This scope of work proposal was developed at the request of the Tulare Lake Subbasin (TLS) for the purpose of developing a monthly and annual calculation of actual, field by field evapotranspiration (ET) (consumptive use) occurring within the Tulare Lake Subbasin for a 12-month period.

Calculation of ET can be performed accurately using weighing lysimeters and eddy correlation monitoring techniques. These methods are limited, however, because they provide point values of ET for a specific location and fail to provide the ET on a regional scale. This limitation has motivated the development of using remotely sensed (RS) data from satellites to evaluate ET over large areas. Satellite data are well suited for deriving spatially continuous ET surfaces that can be sometimes pared down to the field scale because of their temporal and spatial characteristics. However, the most accurate use of RS models require calibration to surface measurements and work from the field level originally. The approach proposed for the tasks in this scope of work includes a combination of high-density, specific ground measurements and remotely sensed modeling, calibrated with those measurements.

## STAFFING RESOURCES AND PROJECT COOPERATORS

Staff expected to work on this project from Land IQ have been involved in various aspects of evapotranspiration modeling, agricultural remote sensing, and regulatory support for the last 3 to 25 years, and are listed below. Other appropriately qualified staff may also participate to facilitate completion of any tasks approved by TLS as a part of this proposed scope of work.

- Principal in Charge and Principal Agricultural Scientist – Joel Kimmelshue, PhD
- Principal Remote Sensing Analyst – Zhongwu Wang, PhD
- Biometeorologist – Frank Anderson, MS
- Agricultural Scientist – Seth Mulder, MS
- Agricultural Scientist – Chris Stall, MS
- Remote Sensing Analyst – Juan Geng, MS

- Project Manager/Client Relations – Casey Gudel, MS
- GIS Analyst – Justin Sitton, BS
- Support Staff – Various as needed

Land IQ also welcomes input and collaboration with the irrigation district staff and intends on integrating staff into continued instrumentation efforts, data collection, and monitoring programs as the on-the-ground, local component of the team, if possible and feasible for the client organization(s).

Implementation of these tasks may also include coordination efforts with other technical providers that Land IQ will manage as a part of this overall effort. Land IQ intends on working openly with these parties to help facilitate, to the extent possible, understanding and acceptance of the work approaches and data management used for analysis and ultimate results.

## TASKS

This scope of work has been developed based on individual task discussions and requests from the TLS. These tasks include:

- **Task 1** – Monthly Consumptive Use Analysis (12 months)
- **Task 2** – Monthly and Annual Reporting (2021)
- **Task 3** – Outreach and Presentations
- **Task 4** – Retrospective Monthly Consumptive Use Analysis (2020)

Each of these tasks is discussed in detail below and includes schedule and deliverables. A cost summary for all work is provided.

### TASK 1. MONTHLY CONSUMPTIVE USE ANALYSIS (2021)

**Scope of Work:** It is proposed that the Land IQ ET data driven approach developed for Semitropic Water Storage District (used since 2016), North Kern Water Storage District (used since 2018), Shafter Wasco Irrigation District (used since 2018), East Kaweah Groundwater Sustainability Agency (currently installed in 2020), Tule Subbasin Groundwater Sustainability Agencies (used since May 2020), and Southern San Joaquin Municipal Utilities District be used. The LDDM is used to interpret image data and leverages robust and repeated ground station data to be implemented within the TLS as well as a more direct image analysis. The approach yields more accurate results when repeated and representative ground calibration data are available. It is also less labor-intensive than METRIC-based (or similar) remote sensing methods at this refined scale.

Because the Land IQ ET data driven approach establishes calibration and validation data at the field level and also analyzes at the field level, the result is field-level consumed water which can then be rolled up to any regional area or crop type desired. This is unique to the Land IQ ET data driven approach as compared to other RS approaches and models.

This method does, however, require robust ground truthing data. Representative ground truthing stations installed within the TLS (limited station installation for the first 12 months) and also results from neighboring districts will be used for calibration and validation datasets. This effort will employ Landsat 8, RapidEye, and Sentinel 2 satellite imagery (freely available) as well as Maxar Imagery (contracted by Land IQ and included in the overall cost). Satellite data will be screened for cloud cover and terrain corrected. It is important that some the images used contain a clear sky. Ground measurements from

monitored eddy covariance and surface renewal stations will be used to generate hourly ET data correlated to Landsat 8, RapidEye, Sentinel 2 and Maxar Imagery satellite overpasses and then used as a dependent variable in the modeling process.

It should be noted that Land IQ has entered into a collaboration agreement with Dr. Daniele Zaccaria and Dr. Rick Snyder (emeritus) from the University of California, Davis as collaborating partners. As such we are able to use the data from 6 neighboring eddy covariance/surface energy balance stations for this project in addition to other existing and neighboring stations, in addition to dozens of Land IQ installed and maintained stations. These stations are owned by UC Davis and operated by Land IQ and UC Davis. The partnership between UC Davis and Land IQ allows Land IQ to use the data from these stations and also provides for independent review by Drs. Daniele Zaccaria and Rick Snyder of RS final results.

**Deliverables:** None

**Schedule:** Individual analyses will be completed monthly and annually at the end of each calendar year (Task 2) and results delivered to the KCWD/MKR GSA within approximately 25 days from the end of the previous month.

## TASK 2. MONTHLY AND ANNUAL REPORTING (2021)

**Scope of Work:** Monthly template reports will be developed. An annual report will also be developed which summarizes the previous year, once completed. The first of the 12 monthly reports will begin approximately 25 days following completion of recording of 30 days of climatic data and will be delivered within 30 days of the end of the previous month.

**Deliverables:** Monthly results will be delivered in data summary, shape file, and report formats. Annual results will be delivered in report format only. Results can also be delivered in a format that can be consumed by online tools for delivery to growers directly. This does not include the partitioning of results by ownership.

In addition to ET reporting, Land IQ will provide field by field crop type mapping for the TLS in electronic and summary form at least annually and more frequently for multi-cropping areas. These data will be the same type and quality of data for crop mapping that are provided to the State of California, Department of Water Resources as Land IQ is the contractor for that dataset as required by SGMA.

**Schedule:** Individual analyses and reporting will be completed monthly and results delivered within approximately 25 days of the end of the previous month being analyzed. Annual summarization and reporting will be completed within approximately 45 days following the end of the previous 12-month period.

## TASK 3. OUTREACH AND PRESENTATIONS

**Scope of Work:** This task accounts for up to three meetings per year to assist with or participate in outreach meetings with growers and irrigation district representatives.

**Deliverables:** Presentation materials

**Schedule:** As needed or directed by the TLS.

## **TASK 4. RETROSPECTIVE MONTHLY CONSUMPTIVE USE ANALYSIS (2020)**

**Scope of Work:** Land IQ will perform a retrospective, monthly field-by-field consumed water for the 2020 water year (October 1, 2019 – September 30, 2020). Each month will be analyzed based upon previously collected ground truthing data from neighboring districts. It should be noted that some increased variability may occur due to the fact that no climatic ground truthing and calibration stations (other than two cooperative stations with UC Davis) were fully installed within the area for this time frame other than in neighboring areas.

In addition to ET reporting, Land IQ will provide field by field crop type mapping for the KCWD/MKR GSA in electronic and summary form for this same time period.

**Deliverables:** Monthly results will be delivered in shape file format with a cumulative annual report.

**Schedule:** All 12 months for the 2020 water year will be delivered by the beginning of January, 2021.

## **TOTAL COST AND PAYMENT TERMS**

According to State of California Subbasin and GSA boundaries, TLS records and Land IQ mapping, acres for each GSA and land use type within the TLS are provided (Table 1). Normally, Land IQ enters into a 3-year agreement that includes full station installation across the entire analysis area. The TLS has requested a 12-month trial period with limited station installation. Therefore, two costs are provided per this request. For this version of the cost estimates and based on some conversations with GSA managers, it was assumed that not all GSA's would prefer landscape-wide consumed water estimates. Therefore, the cost estimates below by GSA were developed according to the footnotes following the table. It is usually the case that Land IQ analyzes the entire footprint of a GSA, however for the first 12 months these alterations are being made.

**Table 1. Summation of acres and annual costs within the Tulare Lake Subbasin GSAs**

GSA and/or Area	Analysis Area	Acres	Tasks 1, 2, & 3		Task 4
			First 12 months - limited station installation (\$0.65/acre/year)	monthly (\$0.65/acre/year)	12 month - Retrospective Analysis (\$0.55/acre/year)
<b>KCWD &amp; MKR GSA <sup>1</sup></b>	Total Area	152,239			
	Urban	12,175			
	Native	negligible			
	Fallow	included			
	Net Analysis Area	140,064	\$ 91,042	\$ 7,587	\$ 77,035
<b>El Rico GSA <sup>2</sup></b>	Total Area	228,788			
	Urban	negligible			
	Native	62,979			
	Fallow	5,204			
	Net Analysis Area	160,605	\$ 104,393	\$ 8,699	\$ 88,333
<b>Southwest Kings GSA <sup>3</sup></b>	Total Area	89,869			
	Urban	negligible			
	Native	36,028			
	Fallow	33,413			
	Net Analysis Area	20,428	\$ 13,278	\$ 1,107	\$ 11,235
<b>South Fork Kings River GSA <sup>4</sup></b>	Total Area	71,311			
	Urban	negligible			
	Native	10,914			
	Fallow	6,198			
	Net Analysis Area	54,199	\$ 35,229	\$ 2,936	\$ 29,809
<b>Tri County GSA <sup>5</sup></b>	Total Area	109,021			
	Urban	negligible			
	Native	52,418			
	Fallow	included			
	Net Analysis Area	109,021	N/A	N/A	\$ 59,962

<sup>1</sup> Currently costed for all gross acres within the outer extent of KCWD & MKR GSA minus urban

<sup>2</sup> Currently costed for all gross acres minus native

<sup>3</sup> Currently costed for all gross acres minus native

<sup>4</sup> Currently costed for all gross acres minus native

<sup>5</sup> Already contracted for full area at 3 year, full station cost for all gross acres across Tule and Tulare Lake Subbasins

It should be noted that without ground truthing stations, the accuracy of the results should be reasonable, but also will only be as good as the calibration data received from the limited number of installed stations and stations within neighboring areas. If the TLS decide to continue this work after the 12-month trial period, it will be necessary to install stations and measure the climatic parameters within the analysis area for a 3-year commitment at a current price of \$0.76/acre/year.

The cost listed (Table 1) includes all rental station equipment, labor, expenses, supplies, project management, and all other associated costs.