

ANAGEMENT PLAN

For the Designation of a Water Conservation Area (WCA)
Compton: Highway 4 Farm WCA; Scott County, KS
January 2017 through December 2031

In order to conserve and extend the productive life of the aquifer in our region and increase the value and viability of our water rights and water resources for future generations we, the undersigned water right owners propose the following management plan, pursuant to 2015 Kansas Session Laws, Chapter 37, Sec. 1 (WCA Law), to form the basis of a Consent Agreement and Order Designating a Water Conservation Area (WCA).

Expression of Conservation

The current appropriation for the water rights included in the Compton Highway 4 Farm WCA totals 1,280 acre-feet annually. The 10-year average water use on the Farm (2003-2012) is 972 acre-feet per calendar year. In order to further conserve water, all water diversions within the Compton Highway 4 Farm WCA are to be collectively restricted to an allocation of 4,375 acre-feet (875 AF X 5) every 5-years; and are not to exceed 1,280 acre-feet annually. This is a 10% reduction from the average historical use from 2003 through 2012.

			Acre-Feet	Inches/Acre (on 642 Acres)	% of Authorized Allocation	Reduction from Historic Use
Annual Authorized Allocation			1280	23.93	N/A	N/A
Historic Average Use			972	18.17	76%	N/A
WCA Annual Allocation			875	16.35	68%	10%
WCA Annual Allocation			1280	23.93	N/A	N/A
WCA 5-Year Allocation			4375	16.35	68%	10%

Water Rights Enrolled and Geographical Boundaries

The Compton Highway 4 Farm WCA shall include the following water rights and all points of diversion associated with those water rights. The following legal descriptions define the areas included in Compton Highway 4 Farm WCA in Scott County:

Water Right Number & Qualifier ID Twp Range & Sec

21815 ID#4	17S 31W 04
21520 ID#1	17S 31W 04
21520 ID#2	17S 31W 04
21520 ID#3	17S 31W 04
25577 ID#7	17S 31W 04
25577 ID#8	17S 31W 04
25577 ID#9	17S 31W 04

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The geographic boundary for the place of use for the irrigation use is shown on the attached map and is described as follows:

- 528 Acres (center pivot irrigation circle) in all of Section 04.
- 121 Acres (center pivot irrigation circle) in the Northeast Quarter (NE ¼) of Section 08

Findings Regarding Groundwater Conditions

The WCA Law requires a finding that one of the following conditions be present within the area proposed as a WCA.

- Groundwater levels in the area in question are declining or have declined excessively;
- The rate of withdrawal of groundwater in the area equals or exceeds the rate of recharge within such area;

We have determined that the following conditions exist:

- Groundwater levels in the area in question are declining or have declined excessively;
- The rate of withdrawal of groundwater in the area equals or exceeds the rate of recharge;

See the attached maps and figures supporting these findings and observations:

- Location Maps
- Estimated Useable Life Map
- Water Use History
- Change in Water Level, Observation Well

These conditions necessitate the implementation of the Compton Highway 4 Farm WCA.

Due Consideration for Past Conservation

We the water right owners assert that no special consideration is required for this WCA with respect to past implementation of reductions in water use from in voluntary conservation measures.

Duration and Terms

The Compton Highway 4 Farm WCA shall be in effect upon issuance of a Consent Agreement and Order Designating a Water Conservation Area, approved by the undersigned and the Chief Engineer of the Division of Water Resources. The proposed term of the WCA is three 5-year periods, totaling 15 years, with an evaluation at the end of each 5-year period.

- a) All allocation values shall be expressed in terms of total water volumes for each of the three 5-year evaluation periods.
- b) All water rights combined shall be limited to no more than 1,280 acre-feet annually.
- c) Wells pumping to a common system shall be provided a single allocation (1,280 acre feet annually) for the total system acres. The total amount pumped by all of the wells involved must remain within the system allocation.
- d) Water rights may, at the discretion of the owners, be combined into a single allocation account with flexibility of pumping the multiple wells within the account as directed by the owner, provided the total account allocation is not exceeded and the annual authorized quantities of the constituent water rights are not exceeded.

- e) In all cases the allocation shall be assigned to the point of diversion and shall apply to all water rights and acres involving that point of diversion. A term permit may be proposed to allow an individual well to exceed its annual allocation under the base water right as long as the total combined quantity of 1,280 acre-feet annually is not exceeded by all wells.
- f) Moreover, in all cases the original water right, such as it existed before the WCA, shall be retained.

In the final year of each 5-year evaluation period of the WCA up to 25% of any unused water, of the immediate preceding 5-year WCA allocation, may be rolled over and added to the allocation for the next 5-year period. This 25% does not calculate for any unused water from previous 5-year period roll over amounts.

Review of Effectiveness

A review of the WCA shall be completed in October 2021, to ensure the above terms remain appropriate and are achieving the stated goals of the Compton Highway 4 Farm WCA. Upon review, and a finding by the Chief Engineer that the WCA has achieved the goals stated herein and that conditions allow it to continue under the same terms for next 5-year period, the terms of the WCA may be continued as long as the Compton Highway 4 Farm is in good standing with its most recent WCA period.

We have been advised that in order to extend the life of the Ogallala Aquifer further we must consider increasing the conservation factor by 5%-10%, of historic use, after each 5-year period of the WCA. Studies have shown that in order for the recharge of the Ogallala Aquifer, in this area, to be consistent with possible farming needs that the conservation factor be a minimum of 30% after the first 20 years. We will take this into consideration for the subsequent periods of this WCA.

If we the water right owners volunteer to increase the level of conservation after this first 5-year period, we will revise and propose a new WCA for the chief engineer to consider.

Corrective Control Provisions and Plan for Conservation

WCA Law states that Corrective Control Provisions may include any of the following:

- Closing the water conservation area to any further appropriation of groundwater.
In which event, the chief engineer shall thereafter refuse to accept any application for a permit to appropriate ground water. The area of the Compton Highway 4 Farm WCA has been closed.
- Determining the permissible total withdrawal of groundwater in the water conservation area each day, month or year, and apportioning such permissible total withdrawal among the valid groundwater right holders in such area in accordance with the relative dates of priority of such rights.
- Reducing the permissible withdrawal of groundwater by any one or more appropriators thereof, or by wells in the water conservation area.
- Requiring and specifying a system of rotation of groundwater use in the WCA area.
- Any other provisions necessary to effectuate agreed-upon water conservation goals consistent with the public interest.

The following corrective controls will be in effect within the Compton Highway 4 Farm WCA during the term of the WCA:

- All water right owners within the Compton Highway 4 Farm WCA shall be responsible for ensuring their water flowmeters are in compliance with state and local law(s). Any water right owner or authorized designee who finds a flow meter that is inoperable or inaccurate shall within 48 hours contact the KDA-

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DWR Garden City Field Office concerning the matter. Whenever an inoperable or inaccurate meter is repaired or replaced, the owner or authorized designee shall notify the KDA-DWR Garden City Field Office within seven (7) days on a form prescribed by the Chief Engineer of the water flowmeter installation and any water flowmeter repair or replacement event.

- The corrective control provisions of the Compton Highway 4 Farm WCA cannot conflict with the rules and regulations of the local GMD that result in overall conservation of water resources. If the Local Enhanced Management Area (LEMA) plan or an Intensive Groundwater Use Control Area (IGUCA) is formed after the initiation of the Compton Highway 4 Farm WCA, and the WCA is partially or wholly within the LEMA or IGUCA, the corrective control provisions that result in the greater overall conservation of water resources based in inches per acre and not based on percent reduction of average historic use shall prevail; however it must give due consideration to the WCA whom have previously implemented reduction in the water use resulting in voluntary conservation measures. The Chief Engineer is authorized to amend the provision of the WCA to conform to any rules, regulations, or requirements that result in greater conservation of the water resource subject to the foregoing due consideration for past and current conservation.

Compliance Monitoring and Enforcement

The following compliance monitoring and enforcement provisions are proposed. This section also includes any specific provisions regarding measuring or reporting water usage.

There is one recognized observation well within the Compton Highway 4 Farm WCA that has for many years been measured annually by the Kansas Geological Survey (KGS). See attached Water Right Area map. This well will continue to be measured annually and the data collected will help in evaluating the effectiveness of the WCA. An onsite observation well may be necessary to monitor the local water level.

We will submit an annual report no later than March 1st and maintain a spreadsheet detailing the following information for each well and all wells combined: beginning and ending meter readings, quantity of water diverted, acres irrigated, the inches per acre, and the quantity of water remaining for the first five year period and each following five year period. The records should be maintained by the members of the WCA and available for KDA upon request.

We agree to maintain a record of the quantity diverted under the approval at the first of each month of the period of authorization. Further, they agree to make such information available upon the request of the KDA, DWR, Chief Engineer or his/her authorized representative.

Backup measurements will be supported or an alternate measurement device in the event that the water flowmeter record for any given well is questionable or not reliable.

Water flowmeters within the WCA will be sealed to the measurement chamber by the KDA-Division of Water Resources, during the duration of this management plan to ensure an accurate water use record.

We acknowledge that failure to abide by the terms of this agreement may result in the termination of the WCA. Failure to abide by the terms, conditions, and limitations of the individual water rights will be subject to the civil penalties outlined in K.A.R. 5-14-10.

State Law

We acknowledge that the Compton Highway 4 Farm WCA is subject to compliance with all other applicable state laws.

Member addition, withdrawal, and removal

With this proposal, we the water rights owners do not have any future plans to add additional members (landowner/water right owners) to our proposed WCA.

If the addition or withdrawal of water rights requires modification to the water allocation quantities, geographical boundaries, places of use, terms, or conditions of the original WCA, the management plan and associated consent agreement shall be modified to describe the changes and the associated consent agreement shall be reaffirmed by. We the water right owners. At that time we shall have the option to reaffirm, or not if all owners agree and signatures are obtained.

Termination

The Compton Highway 4 Farm WCA agreement may be terminated by written notification, signed by all then-existing members of the WCA, to the Chief Engineer of the intent to terminate.

Assurances

This management plan and any related orders will not permanently alter the authorized quantity, rate, ownership and places of use connected to any water right enrolled in the Compton Highway 4 Farm WCA.

Review of Other Applicable Requirements

Upon review, the Compton Highway 4 Farm WCA management plan was found to effect equal or greater overall conservation than applicable GMD regulations, LEMA, and IGUCA requirements.

We, the undersigned certify that we are the owners of the aforementioned water rights and hereby collectively approve and submit this management plan for approval by the Chief Engineer of the Kansas Department of Agriculture, Division of Water Resources.



Water Right Owner #1

Water Right Owner #2 (if applicable)

Additional Optional Signature

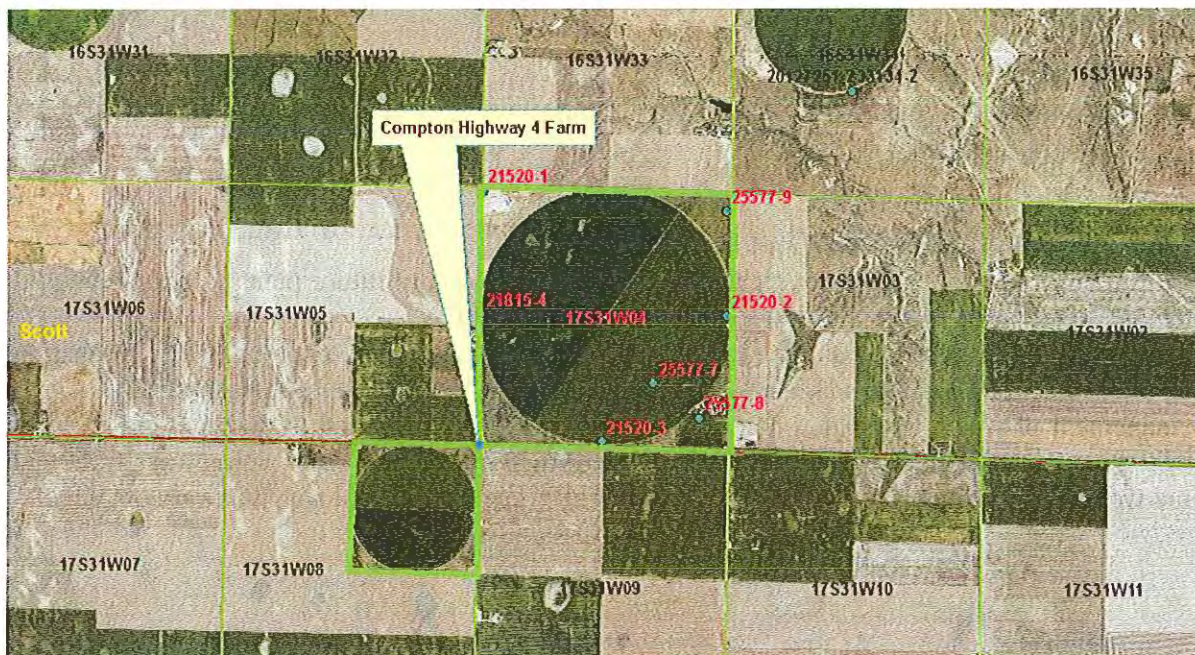
Additional Maps & Figures:

Location Map-

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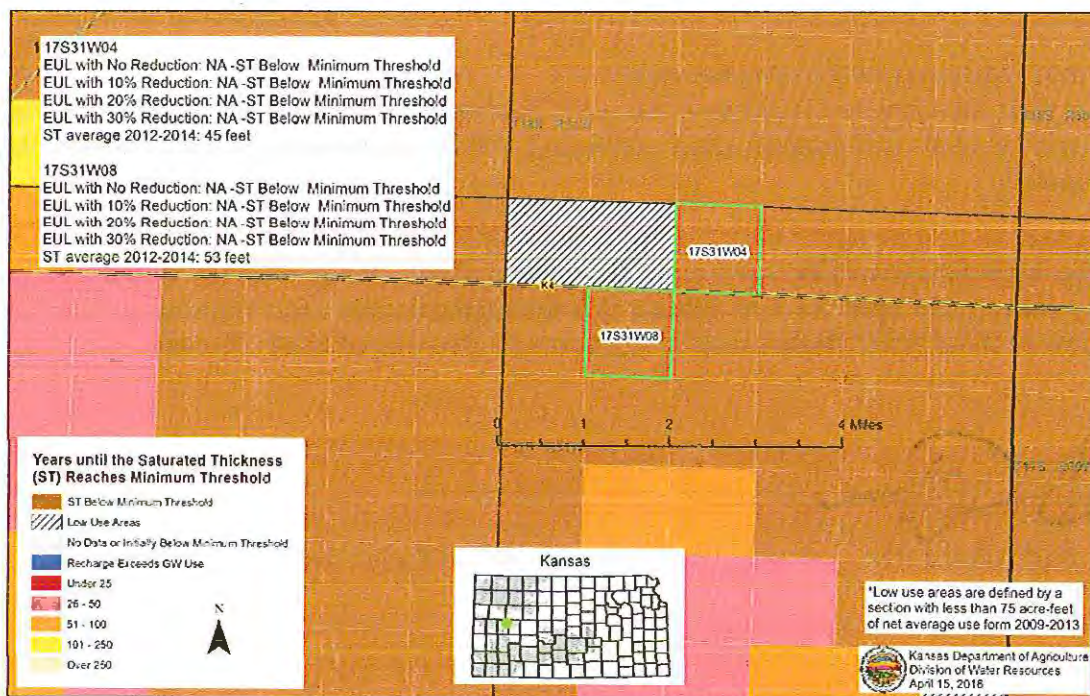
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Estimated Useable Life Map-

Estimated Useable Lifetime for the High Plains Aquifer in the Area of Township 17 South Range 31 West, No Reduction

(Based on KGS Section Level Data for saturated thickness (2012-2014) and revised minimum saturated thickness required to support 400 gpm under a 90-day pumping scenario with wells on 1/4 section, USGS average specific yield, USGS 1947 to 2007 average recharge, and DWR section-level groundwater use data 2009-2013 for an average 2-mile radius with no reduction in use)



Water Use History-

Compton Highway 4 Farm

"Average Rep Use (w/i auth)"- The historic average calculated only using water reports no greater than yearly allocation. If a water report indicates a greater value than the yearly allocation then the actual value is substituted with the maximum allocation.

WR	ID	Location
21815	4	17S31W04
21520	1	17S31W04
21520	2	17S31W04
21520	3	17S31W04
25577	7	17S31W04
25577	8	17S31W04
25577	9	17S31W04

WCA Average Totals (2003-2012)			
Total Auth Alloc	Ave Rep Use (w/i auth)	Total Irr Acres	Average AF/Acre
1280	972	642	1.59
76% =average use of allocation			
2013 Use	2014 Use	2015 Use	Units
970	1049	1045	AF
76%	82%	82%	% use of alloc

% Conservation from Historic Use

5% Conserve	WCA AF/Yr	AF Decr.	Of Alloc
Totals	924	49	72%

10% Conserve	WCA AF/Yr	AF Decr.	Of Alloc
Totals	875	97	68%

Change in Water Level, Observation Well- WR# 21520 ID#3

General Well Site Information

USGS ID:	383559100445101	KGS Local Well ID:	17S 31W 04DCC 01
County:	Scott	PLSS Description:	17S 31W 4 SWSWSE
HUC 8 Code:	10260003	GMD:	Western Kansas GMD #1
Longitude:	-100.751724	Lat/Long Source:	GPS (within 50 feet)
Latitude:	38.599356	Lat/Long Accuracy:	5 seconds
Surface Elevation (ft):	2932	Depth of Well (ft):	202
Geological Unit Codes:	TO	USGS Map Name:	MANNING
Use of Site:	Withdrawal of Water	Use of Water:	Irrigation
WWC5 Links:	None	WIMAS Link:	16509

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Water Level Measurements

383559100445101

Note that depth to water is feet below land surface and all measurements for the well are included.

