

Submit To:
CHIEF ENGINEER
Division of Water Resources
Kansas Department of Agriculture
1320 Research Park Drive
Manhattan, KS 66502-5000
http://agriculture.ks.gov/dwr

APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

WATER RESOURCES
RECEIVED
JUN 26 2024
14:08
KS Dept. of Agriculture



State of Kansas

STATUTORY FILING FEE MUST ACCOMPANY THIS APPLICATION
Please refer to the Fee Schedule attached to this application form.

File Number: **51256**

This item to be completed by the Division of Water Resources staff.

1. Name of Applicant: Nathan Mattison
Address: 5660 E Flora Pl.
City: Denver State: CO Zip Code: 80222-7510
Phone: 703-969-3077 Email: mattisonfarms@gmail.com

2. The source of water is: surface water in _____ (stream)
 groundwater in Saline River (drainage basin)

3. The maximum annual quantity of water desired is 120.9 acre-feet gallons
to be diverted at a maximum rate of 1,000 gpm c.f.s. natural flows natural evaporation
 This project involves surface water storage and redirection. The maximum annual quantity of water desired to be
rediverted is _____ acre-feet gallons, at a rate of _____ gpm c.f.s.

Conversion Factors

1 acre-foot (AF) = 325,851 gallons
1 million gallons (mg) = 3.07 acre-feet (AF)
1 cubic foot per second (c.f.s.) = 448.8 gallons per minute (gpm)

IMPORTANT: Once your application has been assigned a priority date and file number, the requested maximum rate of diversion and maximum requested annual quantity of water under that priority number can **NOT** be increased. Please be certain your requested maximum rate of diversion and maximum annual quantity of water are appropriate and reasonable for your proposed project.

4. The water is intended to be appropriated for the following use(s):
 Artificial Recharge* Irrigation* Recreational* Water Power*
 Industrial* Municipal* Stockwatering* Sediment Control
 Domestic Dewatering Hydraulic Dredging Fire Protection
 Thermal Exchange Contamination Remediation

***IMPORTANT:** You **must** submit a supplemental form providing information to substantiate your request for the quantity of water listed in Item No. 3 for the intended use(s) referenced above.

FOR OFFICE USE ONLY							
FO	<u>3</u>	GMD	<u>-</u>	DUA	<u>-</u>	Use	<u>IRR</u>
Code	<u>RE2</u>	Fee \$	<u>300</u>	TR #		Source	<u>GW</u>
						County	<u>SA</u>
						By	<u>KJN</u>
						Date	<u>6/27/24</u>
						Receipt Date	<u>6-26-24</u>
						Check #	<u>1006</u>

JUN 26 2024

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KS Dept of Agriculture

5. The location(s) of the proposed diversion work(s) (well, pumphouse, etc.) are described below. Note that for the application to be accepted, the point of diversion location(s) **must** be described to at least a 10-acre tract, unless you specifically request a 60-day period of time in which to locate the site within a specifically described, minimal legal quarter section of land. You can specify a nickname for the point of diversion via the A.K.A. line to help you identify it.

If the source of supply is groundwater, a separate application shall be filed for each proposed well or battery of wells, except that a single application may include up to four wells within a circle with a quarter (1/4) mile radius in the same local source of supply which do not exceed a maximum diversion rate of 20 gallons per minute per well.

A battery of wells is defined as two or more wells connected to a common pump by a manifold; or not more than four wells in the same local source of supply within a 300-foot radius circle which are being operated by pumps not to exceed a total maximum diversion rate of 800gpm and which supply water to a common distribution system.

(A) One in the SE quarter of the SW quarter of the NE quarter of Section 32, more particularly described as being near a point 2719 feet North and 1606 feet West of the Southeast corner of said section, in Township 13 South, Range 2 E W, Saline County, KS. A.K.A: _____

(B) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point _____ feet North and _____ feet West of the Southeast corner of said section, in Township _____ South, Range _____ E W, _____ County, KS. A.K.A: _____

(C) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point _____ feet North and _____ feet West of the Southeast corner of said section, in Township _____ South, Range _____ E W, _____ County, KS. A.K.A: _____

(D) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point _____ feet North and _____ feet West of the Southeast corner of said section, in Township _____ South, Range _____ E W, _____ County, KS. A.K.A: _____

(E) One in the _____ quarter of the _____ quarter of the _____ quarter of Section _____, more particularly described as being near a point _____ feet North and _____ feet West of the Southeast corner of said section, in Township _____ South, Range _____ E W, _____ County, KS. A.K.A: _____

6. The proposed project for diversion of water will consist of One well
(number of wells, pumps, dams, etc.)

and was/will be completed on or by the following date: 12/31/25
(date each was or will be completed)

7. The first actual application of water for the proposed beneficial use was or is estimated to be 5/1/26
(Date)

8. List any application, appropriation of water, water right, or vested right file number that covers the same point(s) of diversion or any of the same place of use described in this application. Also list any other recent modifications made to existing permits or water rights in conjunction with the filing of this application.

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9. Will pesticide, fertilizer, or other foreign substance be injected into the water pumped from the diversion works?
 Yes No If yes, a check valve shall be required. All chemigation safety requirements must be met including a chemigation permit and reporting requirements.

10. If you are planning to impound water, please contact DWR prior to submitting this application. Please attach a reservoir area capacity table and inform us of the total acres of surface drainage area above the reservoir.

Have you made an application for a permit for construction of this dam and reservoir with DWR? Yes No

If yes, write the Water Structures permit number here: _____

11. Furnish a detailed topographic or aerial map that depicts the following information:

The application **must** be supplemented by a topographic map, aerial photograph or a detailed plat showing the information described in A-D below.

(A) The center of the section, the section lines or the section corners, and labels showing the appropriate section, township and range numbers, as well as a north arrow and scale,

(B) The location of the proposed point(s) of diversion (wells, stream-bank installations, dams, or other diversion works) described in Item No. 5 of the application, showing the North-South distance and the East-West distance from a section line or southeast corner of section,

(C) The location of the proposed place of use identified by crosshatching,

(D) **For Groundwater Use**, the location of any existing water wells of any kind within 1/2 mile of the proposed well or wells and indicate for each well its type of use and the name and mailing address of the property owner or owners, (If there are no wells within 1/2 mile, please indicate that on the map.)

For Surface Water Use, the names and addresses of the landowner(s) 1/2 mile downstream and 1/2 mile upstream from your property lines, and

(E) The locations of proposed or existing dams, dikes, reservoirs, canals, pipelines, power houses, and any other structures for the purpose of storing, conveying, or using water.

12. For groundwater use, furnish copies of the driller's logs for all test holes or completed wells. Please ensure that the driller's logs provide depth to the static water level. If driller's logs cannot be obtained for an existing well, provide the following information:

Well location as shown in Item No. 5	(A)	(B)	(C)	(D)	(E)
Date drilled	_____	_____	_____	_____	_____
Total depth of well	_____	_____	_____	_____	_____
Depth to static water level	_____	_____	_____	_____	_____

13. The owner(s) of the point of diversion, if other than the applicant is:

Same as applicant.

(name, address, and phone)

(name, address, and phone)

14. The owner(s) of the property where the water is used, if other than the applicant, is:

Same as applicant.

(name, address, and phone)

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(name, address, and phone)

KS Dept. of Agriculture

15. The relationship of the applicant to the proposed place where the water will be used is that of:

Owner Agent Tenant Other: _____

16. A water use correspondent (WUC) must be designated. The WUC will be mailed the annual water use report, which must be filed with the Division by March 1 of each year. Failure to timely file an accurate water use report will subject the owner(s) to a civil fine of up to \$1,000 and potential suspension of the water appropriation or right. By signing this application, I verify that the owner(s) of the water right or permit have confirmed that the following person or agent should be designated as the WUC:

Same as applicant.

(name, address, and phone)

17. I understand that if this application is approved, there could be times, as determined by the Division of Water Resources, when I would not be allowed to divert water. This could affect the economics of my decision to appropriate water. Situations where this might occur may include times when minimum desirable streamflow (MDS) requirements are not met, when Assurance District or Water Marketing releases are made from storage in federal reservoirs, when a Water Reservation Right upstream of a federal reservoir is administered, or when water rights administration becomes necessary to prevent impairment.

I declare, under penalty of perjury, that I have legal access to or control of, the point(s) of diversion described in this application from the landowner or the landowner's authorized representative.

By signing below, I verify that the information set forth above is true to the best of my knowledge, I agree with all statements made above, and that this application is submitted in good faith.



(Applicant Signature)

6-5-24

(Date)

Nathan T. Mattison

(Applicant Name - please print)

(Applicant Title, if applicable - please print)

Assisted by DLM

STKFO/ECRS II

(office/title)

Date: 5/29/24

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**IRRIGATION USE
SUPPLEMENTAL SHEET**

File No. _____

Name of Applicant (Please Print): Nathan Mattison

1. Please supply the name and address of each landowner, the legal description of the lands to be irrigated, and designate the actual number of acres to be irrigated in each forty acre tract or fractional portion thereof:

Landowner of Record NAME: Nathan Mattison

ADDRESS: 5660 E Flora Pl. Denver, CO 80222-7510

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL	
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		
32	13	2W			17	15											28.5	32.5		93

Landowner of Record NAME: _____

ADDRESS: _____

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL	
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		

Landowner of Record NAME: _____

ADDRESS: _____

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL	
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE		

2. Please complete the following information for the description of the operation for the irrigation project. Attach supplemental sheets as needed.

a. Indicate the soils in the field(s) and their intake rates:

Soil Name	Percent of field (%)	Intake Rate (in/hr)	Irrigation Design Group
McCook silt loam	2.2		
Boxberg silt loam	1.4		
Solomon silt loam	17.2		
Detroit silty clay loam	79.2		
Total:	100 %		

b. Estimate the average land slope in the field(s): 0-3 %

Estimate the maximum land slope in the field(s): 0-3 %

c. Type of irrigation system you propose to use (check one):

- Center pivot Center pivot - LEPA "Big gun" sprinkler
 Gravity system (furrows) Gravity system (borders) Sideroll sprinkler

Other, please describe: _____

d. System design features:

i. Describe how you will control tailwater:

ii. For sprinkler systems:

(1) Estimate the operating pressure at the distribution system: _____ psi

(2) What is the sprinkler package design rate? _____ gpm

(3) What is the wetted diameter (twice the distance the sprinkler throws water) of a sprinkler on the outer 100 feet of the system? _____ feet

(4) Please include a copy of the sprinkler package design information.

e. Crop(s) you intend to irrigate. Please note any planned crop rotations:

Corn, wheat, beans

f. Please describe how you will determine when to irrigate and how much water to apply (particularly important if you do not plan a full irrigation).

Consistent with weather ~~and~~ needs and crop needs

You may attach any additional information you believe will assist in informing the Division of the need for your request.

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FEE SCHEDULE

Make checks payable to the Kansas Department of Agriculture.

1. The fee for an application for a permit to appropriate water for beneficial use, except for domestic, waterpower, dewatering, or sediment control use, shall be (see No. 2 below if requesting storage):

Million Gallons (mg)	Acre-Feet (AF)	Fee
≤ 32.585	≤ 100	\$200.00
32.586 - 104.272	100.1 – 320.0	\$300.00
> 104.272	> 320	\$300.00 plus \$20 for each additional 100AF (32.586mg) or any part thereof

2. The fee for an application in which **storage** of water is requested, except for domestic use, shall be:

Million Gallons (mg)	Acre-Feet (AF)	Fee
≤ 81.462	≤ 249.9	\$200.00
≥ 81.463	≥ 250	\$200.00 plus \$20 for each additional 100AF (32.586mg) or any part thereof

Note: If an application requests both direct use *and* storage, the fee charged shall be as determined under No. 1 or No. 2 above, whichever is greater, but not both fees.

3. The fee for an application for **waterpower** or **dewatering** use shall be \$100.00 plus \$200.00 for each 44,880 gallons per minute (100 c.f.s.), or part thereof, of the diversion rate requested.

IMPORTANT NOTICE

If this application is approved, the applicant shall notify the Chief Engineer when the diversion works (well, pump, reservoir, pit, etc.) has/have been completed via the *Notice of Completion of Diversion Works* form (DWR 1-203.11) and along with the statutorily required field inspection fee of:

- \$200.00 for sediment control use or groundwater pits for industrial use, or
- \$400.00 for all other uses made of water

Failure to complete the diversion works by the deadline specified in the *Approval of Application and Permit to Proceed* (or any subsequent extension of time of said deadline) and/or failure to submit the proper notice and field inspection fee will result in the dismissal of the appropriation and forfeiture of any priority associated with it.

For assistance with this application, please contact the Division of Water Resources (DWR).

Manhattan HQ
1320 Research Park Dr.
Manhattan, KS 66502
785-564-6638

Topeka Field Office
1131 SW Winding Rd, Ste 400
Topeka, KS 66615
785-296-5733

Stafford Field Office
300 S. Main St
Stafford, KS 67578
620-234-5311

Stockton Field Office
820 S. Walnut
Stockton, KS 67669
785-425-6787

Garden City Field Office
4532 W. Jones Ave, Ste B
Garden City, KS 67846
620-276-2901

Helpful Sources of Information

DWR Water Appropriation Program
DWR Water Appropriation Forms
KGS Water Well Completion Records
DWR Structures Program

<https://agriculture.ks.gov/divisions-programs/dwr/water-appropriation>
<https://agriculture.ks.gov/divisions-programs/dwr/water-appropriation/water-appropriation-forms>
<https://www.kgs.ku.edu/Magellan/WaterWell/index.html>
<https://agriculture.ks.gov/divisions-programs/dwr/dam-safety/permit-requirements>

IRRIGATION TEST WELL

Driller & Assistant: Logan and Gary Date: 3/20/2023

CUSTOMER: Rodger Mattison PHONE #: 785-452-5066

MAIL ADDRESS: 485 Upper Mill Heights Salina, KS 67401

DRILL LOCATION: SW 1/4 of 32/135/2W Saline Co.

- | | | | |
|--|---------------------------------------|--|---|
| <input type="checkbox"/> Screen 2-1/2" | <input type="checkbox"/> Holeplug | <input type="checkbox"/> Gas & Oil - W.T. | <input type="checkbox"/> 6" or 5" Liner if needed |
| <input type="checkbox"/> Casing 2-1/2" | <input type="checkbox"/> Quarters | <input type="checkbox"/> 3/4" Polyethylene | <input type="checkbox"/> Solvent & Glue |
| <input type="checkbox"/> Couplings, 2-1/2" | <input type="checkbox"/> Water | <input type="checkbox"/> 2-1/2" PVC Tee | <input type="checkbox"/> Water Sample Bottle |
| <input type="checkbox"/> End Caps, 2-1/2" | <input type="checkbox"/> Lime | <input type="checkbox"/> 5" & 6" Bits | <input type="checkbox"/> Inspection Sheet |
| <input type="checkbox"/> Gravel Pack | <input type="checkbox"/> Drilling Mud | <input type="checkbox"/> Packing | |

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Depth:	Formation:	Well Information:
0-3'	top soil	Static Water Level: 25'
3'-25'	clay sandy	Groundwater depth: 25'
25'-77'	sand and gravel	Est. Production: 500-700
77'-80'	shale	Casing Size/Depth: _____
		Screen Size/Depth: _____
		Slot Size: _____
		Grouting Depth: <u>0-80'</u>
		Number of Bags: <u>1</u>
		Sucker Rods: _____
		1" Casing: 80'
		Nearest Contamination: _____
		Notes: water sample

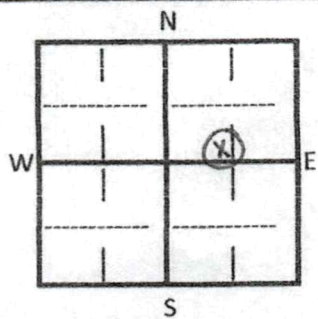
KS Dept. of Agriculture

Latitude: 38.878005 N decimal degrees (ex. 38.881796)
 Longitude -97.562796 W decimal degrees (ex. 95.373889)

Datum: NAD27 NAD83 WGS84

Elevation: 1209 ft.

— 1/4	SE 1/4	SW 1/4	NE 1/4
Sec. <u>32</u>	T <u>13</u>	R <u>2</u>	<u>(W)</u>
County <u>Saline</u>			



Permit #: _____
 WWCS #: _____

\$ <u>1500.00</u>	Well (min)
\$ <u>75.00</u>	/Grout
\$ _____	/Permit Charge
\$ _____	/Submersible Pump
\$ _____	/Dirt & Debris Removal
\$ <u>65.76</u>	/Water Sample / Test Pumping
\$ _____	/Mobilization/Travel
\$ _____	/Discount
Contract Received: <u>2-9-2023</u>	

Invoice #: 2967
 Date Mailed: 3-23-23
 Well Data: Access: Scan:
 Materials: Incent: GG

(ASAP)

Peterson McNett Drilling, Inc.

Phone: (785) 227-8386
Email: mcnettdrilling@yahoo.com

330 HARRISON
P.O. BOX 207
LINDSBORG, KS 67456

WATER WELL DRILLING

IRRIGATION ♦ MONITORING ♦ GEO-THERMAL ♦ PUBLIC WATER ♦ DOMESTIC ♦ STOCK ♦ LAWN

Client Name: Rodger Mattison
Address: 485 Upper Mill Heights
Date: 1/30/2023

Phone: 785-452-5066
City, State & ZIP: Salina, KS 67401
Location: SW ¼ of S32 / T13S / R2W Saline Co.

Irrigation Test Well Contract Agreement

This letter shall be constituted as a legal agreement between Peterson McNett Drilling, Inc. and the Client to perform the work as stated below for the specified amounts and the payment shall be due and owing at the completion of the job. Unpaid balances shall accrue interest at a rate of 2% per month on the unpaid balance after 30 days from the invoice date.

It is the client's responsibility to obtain any and all city/county well permits and/or state permits as required prior to the well being drilled. Please contact your Kansas Dept. of Health & Environment's county sanitarian if your well is outside the city limits or contact your city office if your well is within the city limits. Please send in a copy of your permit with a signed copy of your contract. Be advised, there will be an additional office charge of \$50.00 assessed to the customer along with all permit fees if Peterson McNett Drilling, Inc. has to file any permits.

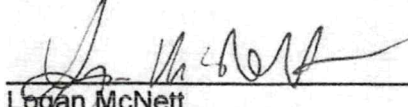
Peterson McNett Drilling, Inc. does not guarantee quantity (gallons per minute), quality or total clarity of the water. A reasonable estimate of potential gallons per minute will be shown on the Driller's well log for each test well. Peterson McNett Drilling, Inc. is not liable or legally responsible for any damage on client's property that may be caused by the drilling process.

Description of services to be performed: Irrigation test well or wells drilled by rotary drilling rig. A test well log shall be sent with invoicing for each test well. The charge for this service shall be \$15.00 per foot plus any well casing used, with a minimum of \$1500.00 for the day, without the mobilization charge if applicable, plus \$75.00 for grouting/plugging each well. If water sample is requested, there will be additional fees taken for analysis along with whatever fees are required by the lab for the analysis and mailing. A Mobilization/Travel Fee of \$500.00 per day will be added for wells located over 60 miles or \$750.00 per day over 90 miles (actual driving miles) from Lindsborg, KS. Please return contract within 30 days to hold contract pricing.

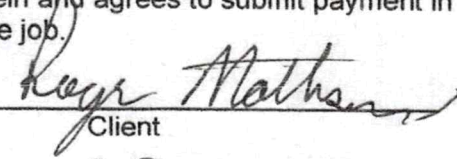
Materials to be used: All items necessary to complete each irrigation test well. Drilling rig, water truck, and bentonite or cement grout for grouting/plugging each well.

By signing this agreement the client acknowledges that (he/she) has read and understood this contract with all the warranties and exclusions contained herein and agrees to submit payment in the amount of the invoice sent to them in full upon completion of the job.

Approved and accepted by:



Logan McNett
Peterson McNett Drilling, Inc.



Client
2-9-2023

Date

David

18195



- Common Land Unit**
- Non-Cropland
 - Cropland
- Wetland Determination Identifiers**
- Restricted Use
 - Limited Restrictions
 - Exempt from Conservation Compliance Provisions

- Tract Boundary
- PLSS

- Unless noted on field:
- | | |
|-----------------------------|--------------------------------|
| 1/ All Wheat HRW, NI, GR | 6/ Grass SMO, NI, FG |
| 2/ All Sorghum GRS, NI, GR | 7/ Alfalfa, NI, FG |
| 3/ All Corn YEL, NI, GR | 8/ Sorghum Forage Cane, NI, FG |
| 4/ All Soybeans COM, NI, GR | 9/ Cotton, NI, GR |
| 5/ Grass NAG, NI, GZ | |

2023 Program Year
Map Created November 04, 2022

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Farm 2580
Tract 702
32-13-2
Displayed over 2021 NAIP

Tract Cropland Total: 149.57 acres

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United States Department of Agriculture (USDA) Farm Service Agency (FSA) maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or National Agricultural Imagery Program (NAIP) imagery. The producer accepts the data 'as is' and assumes all risks associated with its use. USDA-FSA assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data outside FSA Programs. Wetland identifiers do not represent the size, shape, or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact boundaries and determinations or contact USDA Natural Resources Conservation Service (NRCS).



1000 Corey Road
 P.O. Box 820
 Hutchinson, KS 67504-0886
 620-665-5661
 FAX: 620-665-0559
 TOLL FREE: 877-464-0623
 www.sdklabs.com

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KS Dept. of Agriculture

Sample # 1084.23
 Sample: Water
 Other ID: Mattison 1 Well

Date Received: 03/22/2023
 Date/Time Sampled: 3/21/2023 8:10:00
 Date Reported: 03/29/2023
 Total Fee: \$48.00

PETERSON MCNETT DRILLING
 PO BOX 207
 LINDSBORG, KS 67456

ANALYSIS

	Result	Units	Date/Time Analyzed	Analyst
++pH - SM 4500-H+ B	7.73	s.u.	3/23/2023 14:54	NB
++Chloride - SM 4500-Cl B	122	mg/L	3/24/2023 11:00	KW
++Total Hardness - SM 2340B	404	mg/L		
++Nitrate-Nitrogen - SM 4500-NO3 D	Less than 1.0	mg/L	3/23/2023 16:00	KW
++Calcium - SM 3111B	123	mg/L	3/24/2023 09:45	JC
++Magnesium - SM 3111B	23.6	mg/L	3/24/2023 09:45	JC
++Sodium - SM 3111B	77.6	mg/L	3/24/2023 09:45	JC
++Sulfate - SM 4500 SO4 E	140	mg/L	3/27/2023 12:20	SE
% Sodium	48.8	%		
SAR-Sodium Absorption Ratio	1.675	s.u.		
++Electrical Conductivity - SM 2510B	1140	umhos/cm	3/24/2023 12:00	KW
TDS-Total Dissolved Solids - Calculated	809	mg/L		
Irrigation Quality Rating	AS FOLLOWS			
Light Soil -Salinity Hazard	Low			
Light Soil - Sodium Hazard	Medium			
Medium Soil -Salinity Hazard	Medium			
Medium Soil -Sodium Hazard	Medium			
Heavy Soil -Salinity Hazard	Medium			
Heavy Soil -Sodium Hazard	High			
General Comment:	Good to Permissib			

**Sample receipt temperature = 14.6 degrees C.

**Sample beyond hold time for pH.

* Analysis was subcontracted to another laboratory for state compliance - see attached.

++Denotes NELAP/KDHE Accredited Method, Lab Certificate #E-10152. Results meet all requirements of NELAC unless noted.

Methods of analysis per EPA-800 or EPA SW-845, 3rd Ed., 1986 or Standard Methods for the Examination of Water and Wastewater, 18th Edition, 1992.

Approved By:  Quality Assurance Officer

is all rogan



The results reported pertain only to the samples as received by the laboratory



1000 Corey Road
 P.O. Box 886
 Hutchinson, KS 67504-0886
 620-665-5661
 FAX: 620-685-0559
 TOLL FREE: 877-464-0623
 www.sdklabs.com

WATER RESOURCES
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Sample # 1084.23
 Sample: Water
 Other ID: Mattison 1 Well

Date Received: 03/22/2023
 Date/Time Sampled: 3/21/2023 8:10:00
 Date Reported: 03/29/2023
 Total Fee: \$48.00

PETERSON MCNETT DRILLING
 PO BOX 207
 LINDSBORG, KS 67456

ANALYSIS

Result	Units	Date/Time Analyzed	Analyst
--------	-------	--------------------	---------

SDK LABORATORIES
 GENERAL WATER REPORT GUIDELINES

- pH: Normal range 6.5 – 8.5 with Reverse Osmosis/Distilled Water having a range of 5.0 – 6.0.
- Chloride: Levels above 250 mg/L may cause a "salty taste". Levels above 1000 mg/L are not recommended for livestock.
- Fluoride: Levels above 2.0 mg/L are not recommended.
- Total Hardness:
 - "Soft Water": 0 – 85 mg/L (0 – 5 grains/gallon)
 - "Moderately Hard Water": 85 – 150 mg/L (5 – 9 grains/gallon)
 - "Hard Water": 150 – 300 mg/L (9 – 18 grains/gallon)
 - "Very Hard Water": 300 – 500 mg/L (18 – 30 grains/gallon)
 - Levels above 2000 mg/L are not recommended for livestock.
- Nitrate-Nitrogen:
 - Levels between 0 – 10 mg/L are acceptable.
 - Livestock Levels:
 - Levels between 20 – 40 mg/L may pose a risk to some livestock.
 - Levels above 40 mg/L are not recommended for livestock.
- Calcium and Magnesium: Cause the "Hardness" of the water.
- Sodium: Levels above 100 mg/L are considered to be high. Water softeners recharged with sodium chloride (salt) increase the sodium level.
- Sulfate: Levels above 250 mg/L may cause a mild taste and levels above 500 mg/L may cause diarrhea in both humans and livestock.
- Iron: Levels above 0.3 mg/L may cause taste, odor and staining on fixtures and laundry.
- Manganese: Levels above 0.05 mg/L may cause taste and black/grey staining on fixtures and laundry.
- Electrical Conductivity: A measurement of the conductivity of the water. Typically, the higher the electrical conductivity of the water, the higher the dissolved salts/solids.
- TDS-Total Dissolved Solids: Levels above 1000 mg/L may cause taste. Shortened water heater life may be caused by levels above 400 mg/L. Levels above 7000 mg/L are not recommended for livestock.

Source: Michael H. Bradshaw, and G. Morgan Powell, Understanding your Water Test Report, Kansas State University, October 2004
 Standard Methods for the Examination of Water and Wastewater, 18th edition, 1992

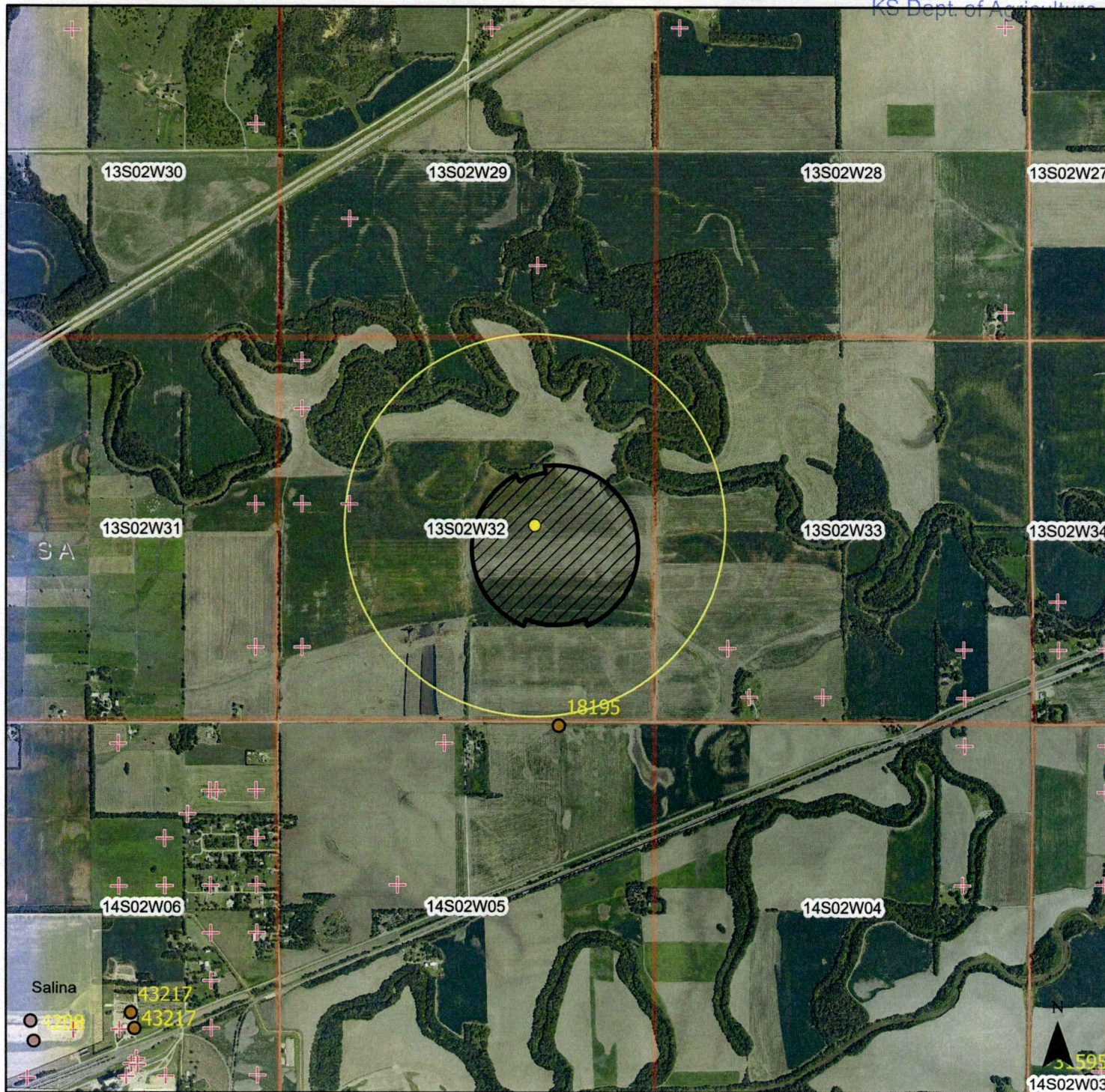
Approved By: M. Morgan Quality Assurance Officer
 morgan



JUN 26 2024

New Application, File No. _____

KS Dept. of Agriculture



Scale: 1:24,000

Signature Required

By signing this I am stating that to the best of my knowledge that all wells of any kind within 1/2 mile of the proposed point of diversion are identified on this map or listed on an attachment to this map.

- Groundwater Point of Diversion
- Proposed Point of Diversion
- ✚ Domestic Well
- ▨ Proposed Place of Use

1320 Research Park Drive
Manhattan, KS 66502
785-564-6700
www. agriculture.ks.gov



900 SW Jackson, Room 456
Topeka, KS 66612
785-296-3556

Mike Beam, Secretary

Laura Kelly, Governor

June 28, 2024

NATHAN MATTISON
5660 E FLORA PL
DENVER CO 80222-7510

RE: Application, File No(s). **51256**

Dear Sir or Madam:

The Division of Water Resources (Division) has received your application(s) for a permit to appropriate water for beneficial use. Your application(s) has been assigned the file number(s) referenced above. Please be aware that the Division may have a large number of pending applications on hand at times and makes every attempt to process them in the order in which they are received. You will be contacted if additional information is required.

Please note, this letter only acknowledges receipt of your application(s) and does not guarantee approval. In accordance with the provisions of the Kansas Water Appropriation Act, the use of water as proposed prior to approval of the application(s) is unlawful.

Additional information about the process may be found on our website at agriculture.ks.gov/divisions-programs/dwr. If you have any other questions, please contact our office at 785-564-6640 or your local Stockton Field Office at 785-425-6787. If you call, please reference the file number so we can help you more efficiently.

Sincerely,

Kris Neuhauser
New Applications Lead
Water Appropriation Program