NOTICE

This scan only represents the application as filed. The information contained herein meets the requirements of K.A.R. 5-3-1 or K.A.R. 5-5-1, and has been found acceptable for filing in the office of the Chief Engineer. The application should not be considered to be a complete application as per K.A.R. 5-3-1b or K.A.R. 5-5-2a.

THE STATE OF KANSAS

KANSAS DEPARTMENT OF AGRICULTURE
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES
David W. Barfield, Chief Engineer

File Number 50026
This item to be completed by the Division of Water Resources.

WATER RESOURCES RECEIVED
MAR 28 2018
10:27
KS DEPT OF AGRICULTURE

APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

Filing Fee Must Accompany the Application
(Please refer to Fee Schedule attached to this application form.)

To the Chief Engineer of the Division of Water Resources, Kansas Department of Agriculture, 1320 Research Park Drive, Manhattan, Kansas 66502:

1. Name of Applicant (Please Print): Mary S. McCurry

   Address: 11913 E. Illinois Ave

   City: Burrton State KS Zip Code 67020

   Telephone Number: (316) 708-0736

2. The source of water is: ☐ surface water in _____ (stream)

   OR ■ groundwater in Arkansas River Basin - Equus Beds Aquifer (drainage basin)

   Certain streams in Kansas have minimum target flows established by law or may be subject to administration when water is released from storage for use by water assurance district members. If your application is subject to these regulations on the date we receive your application, you will be sent the appropriate form to complete and return to the Division of Water Resources.

3. The maximum quantity of water desired is *215.6 acre-feet OR _____ gallons per calendar year, to be diverted at a maximum rate of *800 gallons per minute OR _____ cubic feet per second.

   *Limited to 215.6 AF & 800 GPM when combined with # 48417.

   Once your application has been assigned a priority, the requested maximum rate of diversion and maximum requested quantity of water under that priority number can **NOT** be increased. Please be certain your requested maximum rate of diversion and maximum quantity of water are appropriate and reasonable for your proposed project and are in agreement with the Division of Water Resources' requirements.

4. The water is intended to be appropriated for **(Check use intended):**

(a) ☐ Artificial Recharge	(b) ■ Irrigation	(c) ☐ Recreational	(d) ☐ Water Power
(e) ☐ Industrial	(f) ☐ Municipal	(g) ☐ Stockwatering	(h) ☐ Sediment Control
(i) ☐ Domestic	(j) ☐ Dewatering	(k) ☐ Hydraulic Dredging	(l) ☐ Fire Protection
(m) ☐ Thermal Exchange	(n) ☐ Contamination Remediation		

YOU **MUST** COMPLETE AND ATTACH ADDITIONAL DIVISION OF WATER RESOURCES FORM(S) PROVIDING INFORMATION TO SUBSTANTIATE YOUR REQUEST FOR THE AMOUNT OF WATER FOR THE INTENDED USE REFERENCED ABOVE.

For Office Use Only:
F.O. 2 *GMD* 2 *Meets K.A.R. 5-3-1* (YES) / NO *Use* FER *Source* (G) S *County* RN *By* AHW *Date* 3/28/18
Code RE2 *Fee $* 300 *TR #* _____ *Receipt Date* 3/28/18 *Check #* 13519

DWR 1-100 (Revised 06/16/2014)

4/2/2018 LCM

File No. _____

5. The location of the proposed wells, pump sites or other works for diversion of water is:

Note: For the application to be accepted, the point of diversion location 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.

(A) One in the SW quarter of the NW quarter of the SW quarter of Section 35, more particularly described as being near a point 1356 feet North and 5176 feet West of the Southeast corner of said section, in Township 23 South, Range 4W East/West (circle one), Reno County, Kansas.

(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 _____ East/West (circle one), _____ County, Kansas.

(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 _____ East/West (circle one), _____ County, Kansas.

(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 _____ East/West (circle one), _____ County, Kansas.

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 (¼) 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 800 gallons per minute and which supply water to a common distribution system.

6. The owner of the point of diversion, if other than the applicant is (please print):

Mary S. McCurry Trust, 11913 E. Illinois Ave, Burrton, KS 67020. 316-708-0736
(name, address and telephone number)

_____
(name, address and telephone number)

You must provide evidence of legal access to, or control of, the point of diversion from the landowner or the landowner's authorized representative. Provide a copy of a recorded deed, lease, easement or other document with this application. In lieu thereof, you may sign the following sworn statement:

> I have legal access to, or control of, the point of diversion described in this application from the landowner or the landowner's authorized representative. I declare under penalty of perjury that the foregoing is true and correct.
>
> Executed on March 22, 2018. Mary S. McCurry
> Applicant's Signature

The applicant must provide the required information or signature irrespective of whether they are the landowner. Failure to complete this portion of the application will cause it to be unacceptable for filing and the application will be returned to the applicant.

7. The proposed project for diversion of water will consist of one well
(number of wells, pumps or dams, etc.)
and (was)(will be) completed (by) 4/2/2015 under Water Permit No. 48417.
(Month/Day/Year - each was or will be completed)

8. The first actual application of water for the proposed beneficial use was or is estimated to be 4/1/2019.
(Mo/Day/Year)

File No. 50016

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 the Division of Water Resources for assistance, prior to submitting the application. Please attach a reservoir area capacity table and inform us of the total acres of surface drainage area above the reservoir.

    Have you also made an application for a permit for construction of this dam and reservoir with the Division of Water Resources? ☐ Yes ☐ No

    - If yes, show the Water Structures permit number here NA
    - If no, explain here why a Water Structures permit is not required NA

11. The application must be supplemented by a U.S.G.S. topographic map, aerial photograph or a detailed plat showing the following information. On the topographic map, aerial photograph, or plat, identify the center of the section, the section lines or the section corners and show the appropriate section, township and range numbers. Also, please show the following information:

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

    (b) If the application is for groundwater, please show the location of any existing water wells of any kind within ½ mile of the proposed well or wells. Identify each existing well as to its use and furnish the name and mailing address of the property owner or owners. If there are no wells within ½ mile, please advise us.

    (c) If the application is for surface water, the names and addresses of the landowner(s) ½ mile downstream and ½ mile upstream from your property lines must be shown.

    (d) The location of the proposed place of use should be shown by crosshatching on the topographic map, aerial photograph or plat.

    (e) Show the location of the pipelines, canals, reservoirs or other facilities for conveying water from the point of diversion to the place of use.

    A 7.5 minute U.S.G.S. topographic map may be obtained by providing the section, township and range numbers to: Kansas Geological Survey, 1930 Constant, Campus West, University of Kansas, Lawrence, Kansas 66047.

12. List any application, appropriation of water, water right, or vested right file number that covers the same diversion points 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.

    Water Permit No. 48417 - Same point of diversion & partial place of use overlap. A change in place of use application is being filed on No. 48417 to create an identical place of use overlap with the place of use proposed by this application. The quantity and rate should be limited to 215.6 AF and 800 GPM when combined with No. 48417.

File No. _____

13. Furnish the following well information if the proposed appropriation is for the use of groundwater. If the well has not been completed, give information obtained from test holes, if available.

Information below is from: ☐ Test holes ▣ Well as completed ▣ Drillers log attached

Well location as shown in paragraph No.	(A)	(B)	(C)	(D)
Date Drilled	9/29/2014			
Total depth of well	41'			
Depth to water bearing formation	6'			
Depth to static water level	6'			
Depth to bottom of pump intake pipe				

14. The relationship of the applicant to the proposed place where the water will be used is that of Owner & tenant.
(owner, tenant, agent or otherwise)

15. The owner(s) of the property where the water is used, if other than the applicant, is (please print):
Andrew J. McCurry Trust; Mary S. McCurry Trust, 11913 E. Illinois Ave, Burrton, KS 67020. 316-708-0736
(name, address and telephone number)
Charles E. Rudicel III, 3604 N. Maple St., Hutchinson, KS 67502. 620-663-2939
(name, address and telephone number)

16. The undersigned states that the information set forth above is true to the best of his/her knowledge and that this application is submitted in good faith.

Dated at Halstead, Kansas, this 22nd day of March (month), 2018 (year).

Mary S. McCurry
(Applicant Signature)

By _____
(Agent or Officer Signature)

_____
(Agent or Officer - Please Print)

Assisted by T. Boese GMD2/Manager (office/title) Date: March 22, 2018

50026

FEE SCHEDULE

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

ACRE-FEET	FEE
0-100	$200.00
101-320	$300.00
More than 320	$300.00 plus $20.00 for each additional 100 acre-feet or any part thereof.

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

ACRE-FEET	FEE
0-250	$200.00
More than 250	$200.00 plus $20.00 for each additional 250 acre-feet of storage 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 a permit to appropriate water for water power or dewatering purposes shall be $100.00 plus $200.00 for each 100 cubic feet per second, or part thereof, of the diversion rate requested.

Note: The applicant shall notify the Chief Engineer and pay the statutorily required field inspection fee of $400.00 when construction of the works for diversion has been completed, except that for applications filed on or after July 1, 2009, for works constructed for sediment control use and for evaporation from a groundwater pit for industrial use shall be accompanied by a field inspection fee of $200.00.

MAKE CHECKS PAYABLE TO THE KANSAS DEPARTMENT OF AGRICULTURE

ATTENTION

A Water Conservation Plan may be required per K.S.A. 82a-733. A statement that your application for permit to appropriate water may be subject to the minimum desirable streamflow requirements per K.S.A. 82a-703a, b, and c may also be required from you. After the Division of Water Resources has had the opportunity to review your application, you will be notified whether or not you will need to submit a Water Conservation Plan. You also may be required to install a water flow meter or water stage measuring device on your diversion works prior to diverting water. There may be other special conditions or Groundwater Management District regulations that you will need to comply with if this application is approved.

CONVERSION FACTORS

1 acre-foot equals 325,851 gallons

1 million gallons equal 3.07 acre-feet

IRRIGATION USE
SUPPLEMENTAL SHEET

File No. 50226

Name of Applicant (Please Print): Mary S. McCurry

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: Mary S. McCurry Trust

ADDRESS: 11913 E. Illinois Ave, Burrton, KS 67020

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
35	23S	4W										40	15.5						55.5

Landowner of Record NAME: Andrew J. McCurry Trust &Mary S. McCurry Trust

ADDRESS: 11913 E. Illinois Ave, Burrton, KS 67020

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
35	23S	4W									40		13.5	36					89.5

Landowner of Record NAME: Charles E. Rudicel III

ADDRESS: 3604 N. Maple St., Hutchinson, KS 67502

S	T	R	NE¼				NW¼				SW¼				SE¼				TOTAL
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
35	23S	4W											9						9

154

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
Darlow-Elmer Complex	1	0.00-0.06	
Punkin-Taver Complex	63	0.00-0.06	
Dillhut Fine Sand	25	0.60-2.00	
Saltcreek & Naron FSL	11	0.06-0.20	
Total:	100 %		

b. Estimate the average land slope in the field(s): 1 %

Estimate the maximum land slope in the field(s): 2 %

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

X	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: Will schedule and apply irrigation to eliminate run-off

ii. For sprinkler systems:

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

(2) What is the sprinkler package design rate? unknown 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? unknown feet

(4) Please include a copy of the sprinkler package design information. Not available

e. Crop(s) you intend to irrigate. Please note any planned crop rotations: Grass, corn, soybeans, milo, wheat

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). Will contract with crop consultant as needed

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

3-22-18
(Date)

Kansas Department of Agriculture
Division of Water Resources
David W. Barfield, Chief Engineer
1320 Research Park Drive
Manhattan, Kansas 66502

Re: Application File No. 500210

Minimum Desirable Streamflow

Dear Sir:

I understand that a Minimum Desirable Streamflow requirement has been established by the legislature for the source of supply to which the above referenced application applies.

I understand that diversion of water pursuant to this application will be subject to regulation any time Minimum Desirable Streamflow requirements are not being met.

I also 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. I realize that this could affect the economics of my decision to appropriate water.

I am aware of the above factors, and with the knowledge thereof, request that the Division of Water Resources proceed with processing and approval, if possible, of the above referenced application.

Mary S. McCurry
Signature of Applicant

Mary S. McCurry
(Print Applicant's Name)

State of Kansas)
) ss
County of HARVEY)

I hereby certify that the foregoing instrument was signed in my presence and sworn to before me this 22ND day of MARCH, 2018.

NOTARY PUBLIC - State of Kansas
REBECCA WILSON
My Appt. Exp. 06/11/2018

Rebecca Wilson
Notary Public

My Commission Expires: 06/11/2018

WATER RESOURCES
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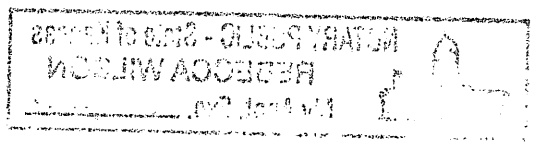
MAR 28 2018
KS DEPT OF AGRICULTURE

DWR 1-100.171 (Revised 03/27/2008)

MINIMUM DESIRABLE STREAMFLOW FORM TO BE USED WHEN APPLICABLE WHEN FILING AN APPLICATION FOR PERMIT TO APPROPRIATE WATER FOR BENEFICIAL USE

The Kansas Legislature has established minimum desirable streamflows for the streams listed below. If your proposed diversion of water is going to be from one of these watercourses or adjacent alluvial aquifers, please complete the back side of this page and submit it along with your application for permit to appropriate water.

Arkansas River
Big Blue River
Chapman Creek
Chikaskia River
Cottonwood River
Delaware River
Little Arkansas River
Little Blue River
Marais des Cygnes River
Medicine Lodge River
Mill Creek (Wabaunsee Co. area)
Neosho River
Ninnescah River
North Fork Ninnescah River
Rattlesnake Creek
Republican River
Saline River
Smoky Hill River
Solomon River
South Fork Ninnescah
Spring River
Walnut River
Whitewater River



5 00 26

WATER WELL RECORD Form WWC-5

Division of Water Resources App. No. 48417

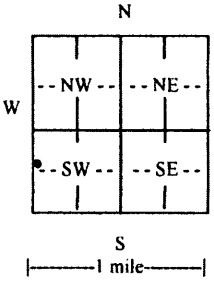
1 LOCATION OF WATER WELL: County: Reno | Fraction: SW ¼ SW ¼ NW ¼ SW ¼ | Section Number: 35 | Township No.: T 23 S | Range Number: R 4 ☐E ☑W

Street/Rural Address of Well Location; if unknown, distance & direction from nearest town or intersection: If at owner's address, check here ☐.
From 50 & Rayle Rd. 1 3/4 S ESR

Global Positioning System (GPS) information:
Latitude: 38.00321 (in decimal degrees)
Longitude: 097.73827 (in decimal degrees)
Elevation: 1473
Datum: ☐ WGS 84, ☐ NAD 83, ☑ NAD 27
Collection Method:
☑ GPS unit (Make/Model: Garmin 62S)
☐ Digital Map/Photo, ☑ Topographic Map, ☐ Land Survey
Est. Accuracy: ☐ <3 m, ☑ 3-5 m, ☐ 5-15 m, ☐ >15 m

2 WATER WELL OWNER: Andy McCurry
RR#, Street Address, Box #: 11913 E. Illinois Ave.
City, State, ZIP Code : Burtton. Kansas 67020

3 LOCATE WELL WITH AN "X" IN SECTION BOX:



4 DEPTH OF COMPLETED WELL 41 ft.
Depth(s) Groundwater Encountered (1)..... ft. (2)..... ft. (3)..... ft.
WELL'S STATIC WATER LEVEL 6 ft. below land surface measured on mo/day/yr. 9/29/2014
Pump test data: Well water was..... ft. after..... hours pumping..... gpm
EST. YIELD..... gpm. Well water was..... ft. after..... hours pumping..... gpm
Bore Hole Diameter 40 in. to 41 ft., and ..... in. to ..... ft.
WELL WATER TO BE USED AS: ☐ Public water supply ☐ Geothermal ☐ Injection well
☐ Domestic ☐ Feedlot ☐ Oil field water supply ☐ Dewatering ☐ Other (Specify below)
☑ Irrigation ☐ Industrial ☐ Domestic-lawn & garden ☐ Monitoring well
Was a chemical/bacteriological sample submitted to Department? ☐ Yes ☑ No
If yes, mo/day/yr sample was submitted.....
Water well disinfected? ☑ Yes ☐ No

5 TYPE OF CASING USED: ☐ Steel ☑ PVC ☐ Other .....
CASING JOINTS: ☑ Glued ☐ Clamped ☐ Welded ☐ Threaded
Casing diameter 16 in. to 21 ft., Diameter ..... in. to ..... ft., Diameter ..... in. to ..... ft.
Casing height above land surface 24 in., Weight SCH40 lbs./ft., Wall thickness or gauge No. 500
TYPE OF SCREEN OR PERFORATION MATERIAL:
☐ Steel ☐ Stainless Steel ☑ PVC ☐ Other (Specify) .....
☐ Brass ☐ Galvanized Steel ☐ None used (open hole)
SCREEN OR PERFORATION OPENINGS ARE:
☐ Continuous slot ☐ Mill slot ☐ Gauze wrapped ☐ Torch cut ☐ Drilled holes ☐ None (open hole)
☐ Louvered shutter ☐ Key punched ☐ Wire wrapped ☑ Saw cut ☐ Other (specify) .....
SCREEN-PERFORATED INTERVALS: From 21 ft. to 41 ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.
GRAVEL PACK INTERVALS: From 41 ft. to 10 ft., From ..... ft. to ..... ft.
From ..... ft. to ..... ft., From ..... ft. to ..... ft.

6 GROUT MATERIAL: ☐ Neat cement ☐ Cement grout ☑ Bentonite ☐ Other .....
Grout Intervals: From 10 ft. to 0 ft., From ..... ft. to ..... ft., From ..... ft. to ..... ft.
What is the nearest source of possible contamination:
☐ Septic tank ☐ Lateral lines ☐ Pit privy ☐ Livestock pens ☐ Insecticide storage ☑ Other (specify below)
☐ Sewer lines ☐ Cesspool ☐ Sewage lagoon ☐ Fuel storage ☐ Abandoned water well
☐ Watertight sewer lines ☐ Seepage pit ☐ Feedyard ☐ Fertilizer storage ☐ Oil well/gas well none
Direction from well ..... Distance from well .....

FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	2	Top soil			
2	6	Brown clay			
6	41	Med.-fine sand & gravel			
		clean & loose			

WATER RESOURCES RECEIVED
MAR 28 2018
KS DEPT OF AGRICULTURE

7 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION: This water well was ☑ constructed, ☐ reconstructed, or ☐ plugged under my jurisdiction and was completed on (mo/day/year) 9/29/2014 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 134 This Water Well Record was completed on (mo/day/year) 9/30/2014 under the business name of Rosencrantz-Bemis Ent. by (signature) .....

INSTRUCTIONS: Use typewriter or ball point pen. *PLEASE PRESS FIRMLY* and *PRINT* clearly. Please fill in blanks and check the correct answers. Send three copies (white, blue, pink) to Kansas Department of Health and Environment, Bureau of Water, Geology Section, 1000 SW Jackson St., Suite 420, Topeka, Kansas 66612-1367. Telephone 785-296-5524. Send one copy to WATER WELL OWNER and retain one for your records. Include fee of $5.00 for each constructed well. Visit us at http://www.kdheks.gov/waterwell/index.html.

KSA 82a-1212 Check: ☑ White Copy, ☐ Blue Copy, ☐ Pink Copy

500026

Servi-Tech Laboratories

1816 E. Wyatt Earp • PO Box 1397 • Dodge City, KS 67801
www.servitechlabs.com

Phone: 620.227.7123
800.557.7509
Fax: 620.227.2047

Lab #: **004621**

LABORATORY ANALYSIS REPORT

Report Date: 07/06/2015 05:07 p

Send To: 15075 **Bill To:** 40840	EQUUS BEDS GROUNDWATER MGT. DISTRICT #2 313 SPRUCE HALSTEAD, KS 67056		Sean H. Jenkins QA Manager
Client Name:	ANDREW MCCURRY	**Received:**	06/30/2015 10:00 am
Sample ID:	48417 IRR. WELL	**Submitted By:**	ups
Location:	SW-NW-SW 35-23S-4W	**Invoice No:**	363664
Sampled:	06/29/2015 12:53 pm	**P.O. #:**	
Sampled By:	David Randolph		

Analysis	Result	Unit	lbs / Acre Inch	meq / L
pH, at 22.4°C	7.8	units		
Nitrate Nitrogen, NO3-N	0.29	mg/L	0.1	<0.1
Chloride, Cl	130	mg/L	29.5	3.7
Sulfate, SO4	87	mg/L	19.7	1.8
Sulfate-Sulfur, SO4-S	29	mg/L	6.6	1.8
Bicarbonate, HCO3	300	mg/L	68.0	4.9
Carbonate, CO3	<10	mg/L	<2.3	<0.3
Hydroxide, OH	<10	mg/L	<2.3	<0.6
Total Alkalinity, CaCO3	250	mg/L	56.7	5.0
Hardness (CaCO3)	310	mg/L		
Hardness (CaCO3)	18	grains/gal		
Total Calcium, Ca	92	mg/L	20.9	4.6
Total Magnesium, Mg	19	mg/L	4.3	1.6
Total Potassium, K	3	mg/L	0.7	<0.1
Total Sodium, Na	110	mg/L	24.9	4.8
Sodium Adsorption Ratio, SAR	2.7	ratio		
Adjusted SAR, SARa	6.1	ratio		
Sodium Percentage	43.4	% of cations		
Total Boron, B	0.07	mg/L	<0.1	
Total Iron, Fe	0.23	mg/L	0.1	
Total Manganese, Mn	0.10	mg/L	<0.1	
Electrical Conductivity, EC	1040	µmho/cm		
Total Dissolved Solids (Calc), TDS	666	mg/L		
pHc	7.1			
Corrosion Indices				
Langlier Index, at 20°C	0.9			
Aggressive Index, AI	12.7			

Report formatted for regulatory compliance available upon request.

Servi-Tech Laboratories
1816 E. Wyatt Earp • PO Box 1397 • Dodge City, KS 67801
www.servitechlabs.com

Phone: 620.227.7123
800.557.7509
Fax: 620.227.2047

Lab #: **004621** **LABORATORY ANALYSIS REPORT** Report Date: 07/06/2015 05:07 p
Sample ID: 48417 IRR. WELL **Client Name:** ANDREW MCCURR **Location:** SW-NW-SW 35-23S-4W

Interpretations for Corrosive Indices

LANGLIER SATURATION INDEX (LSI) indicates the CaCO3 saturation of a given water supply. A positive index value (greater than 0.5) indicates that the water is "non-corrosive" with an increasing tendency to precipitate CaCO3 and deposit scale.

AGGRESSIVE INDEX (over 12.0): Indicates that this water is non-aggressive and is unlikely to cause corrosion in pipes and metal fixtures.

The Langlier Index and Aggressive Index can be used as indicators of the potential corrosivity of water. Other factors that affect corrosivity may be present and not included in this test.

Interpretations For Irrigation Use

GENERAL RATING - FAIR QUALITY IRRIGATION WATER

SALINITY HAZARD - MEDIUM: Extended use of this irrigation water is considered satisfactory for growth of many plants. Soluble salts have potential to accumulate to levels that may affect growth of moderately salt-sensitive species (e.g., alfalfa, corn, soybeans), may affect young seedlings, or may affect newly planted cuttings. Routine leaching by a degree of over irrigating may be needed to mobilize salts into the lower root zone, but good internal soil drainage is necessary. Test irrigation water and soil regularly to monitor salinity levels.

PERMEABILITY HAZARD: MEDIUM. The adjusted SAR value suggests this water should be used with caution for extended irrigation of fine-textured or medium-textured soils, especially clayey soils or sandy-clayey soils. Surface crusting or reduced water infiltration rates are symptoms of excess sodium accumulation. If these symptoms occur, routine applications of soluble calcium amendment (e.g., gypsum) or other soil management strategies may be needed. Soluble calcium amendments require internal soil drainage that allows downward water movement. Test the soil routinely for exchangeable sodium (%Na) and the irrigation water for adjusted SAR to monitor potential sodium accumulations.

BORON HAZARD - VERY LOW: Boron is one of the essential plant nutrients required by plants for healthy growth but it is only needed in very small amounts and can therefore become toxic to plants even at very low concentrations. The boron concentration in this water source is considered safe for most field crops and landscape plants.

CHLORIDE HAZARD FROM SPRINKLER IRRIGATION - MEDIUM (70 - 150 mg/L): Chloride level should be acceptable for most crops and plants. Foliar injury, like spotting or leaf burn, may occur from water droplets that dry on the leaf surface when applied to sensitive plant types (e.g. certain tree species, ornamentals, etc.). Chloride injury problems may be more common during high temperature and low humidity conditions.

pHc: pHc values above 8.4 indicate a tendency to dissolve lime from soil through which the water moves; values below 8.4 indicates a tendency to precipitate lime from water applied.

Report formatted for regulatory compliance available upon request.

5004

Servi-Tech Laboratories

1816 E. Wyatt Earp • PO Box 1397 • Dodge City, KS 67801
www.servitechlabs.com

Phone: 620.227.7123 • 800.557.7509 • **Fax:** 620.227.2047

Lab #: D-2015NL006358

LABORATORY REPORT

Report Date: 09/09/2015 04:44 pm

Send To: 15075 EQUUS BEDS GROUNDWATER MGT. DISTRICT #2 313 SPRUCE
Bill To: 40840 HALSTEAD, KS 67056

Sean H. Jenkins
QA Manager

Project ID:	**Date/Time Received:** 09/04/2015 08:00 am	**Location:** SW-NW-SW 35-23S-4W
Project Title: ANDREW MCCURRY	**Name of Submitter:** usps	
Sample ID: 48417 IRR. WELL	**Date/Time Sampled:** 09/01/2015 04:09 pm	**Invoice No:** 364242
Client Name: ANDREW MCCURRY	**Name of Sampler:** David Randolph	**P.O. #:**
Subject: Aqueous Lab Analysis		**Depth:** 41
		Flow Rate:

Analysis	Result	Unit	RL	Method	Analysis Date/Time	Tech
NELAP Accredited Tests						
Chloride, Cl	126	mg/L AR	10.0	EPA 300.0	9/8/2015 5:16PM	JLH
Electrical Conductivity, EC	1040	µmho/cm AR	0.1	SM 2510 B-1997	9/4/2015	JLH

NELAP Statement

Laboratory Accreditation: The analytical results included in this report meet all the requirements of the National Environmental Laboratory Accreditation Program (NELAP), unless otherwise noted. The reported results apply only to the sample that was analyzed. This report may not be reproduced, except in full, without permission of Servi-Tech.

Sample Acceptability Criteria

Sample not received 'on ice'.

Accreditation Agency	Accreditation Number
KDHE	E-10150
TCEQ	T104704505-11-1
OK DEQ	State Lab ID 9707

Test Basis: AR=As Received

RL = Reporting Limit

50026

CITY OF WICHITA

FROM: Wichita Municipal Water and Wastewater Lab
Water Treatment Plant
1815 W. Pine St.
Wichita, KS 67203-3230
316-269-4766

TO: Tim Boese, Manager
Equus Beds Groundwater MD#2
313 Spruce Street
Halstead, KS 67056-1925

Analytical Result

KDHE Certification No: E-60603
NELAP Accredited Laboratory

LAB LOG NO: AW00974
LOCATION CODE: PERMIT_48417
DESCRIPTION: Irrigation Well, SW-NW-SW 35-23S-4W

Report Date: 08/02/2016
Date/Time Collected: 06/30/2016 11:19
Date/Time Received: 07/11/2016 13:30
Sample Collector RANDOLPH, D.

Comments:

Parameter	Analytical Result	Units	MDL	Analytical Method	Analysis Date and Time	Analyst
Chloride	106	mg/L	5.0	EPA 300.0	07/15/2016 11:32	TWHEALDON
Specific Conductance	932	umhos/cm	2	SM 2510 B	07/14/2016 13:15	TWHEALDON

This report is respectfully submitted by Vernon Strasser, Quality Assurance Officer, Wichita Municipal Water and Wastewater Laboratory. If you have any question, please call me at 316-269-4771. The results relate only to the sample as received by the laboratory or taken by Lab staff following the Quality Assurance Plan. This report shall not be reproduced except in full, without the written approval of the laboratory.

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AUG 1 2016
Equus Beds Groundwater Management District No. 2

WATER RESOURCES
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MAR 28 2018

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CITY OF WICHITA

FROM: Wichita Municipal Water and Wastewater Lab
Water Treatment Plant
1815 W. Pine St.
Wichita, KS 67203-3230
316-269-4766

TO: Tim Boese, Manager
Equus Beds Groundwater MD#2
313 Spruce Street
Halstead, KS 67056-1925

Analytical Result

KDHE Certification No: E-60603
NELAP Accredited Laboratory

LAB LOG NO: AW01650
LOCATION CODE: PERMIT_48417
DESCRIPTION: Irrigation Well, SW-NW-SW 35-23S-4W

Report Date: 11/29/2016
Date/Time Collected: 10/25/2016 10:46
Date/Time Received: 11/09/2016 13:30
Sample Collector RANDOLPH, D.

Comments:

Parameter	Analytical Result	Units	MDL	Analytical Method	Analysis Date and Time	Analyst
Chloride	65.6	mg/L	5.0	EPA 300.0	11/18/2016 10:59	TWHEALDON
Specific Conductance	804	umhos/cm	2	SM 2510 B	11/16/2016 09:10	PMILLS

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NOV 29 2016
Equus Beds Groundwater Management District No. 2

WATER RESOURCES
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MAR 28 2018
KS DEPT OF AGRICULTURE

50026

CITY OF WICHITA

FROM: Wichita Municipal Water and Wastewater Lab
Water Treatment Plant
1815 W. Pine St.
Wichita, KS 67203-3230
316-269-4766

TO: Tim Boese, Manager
Equus Beds Groundwater MD#2
313 Spruce Street
Halstead, KS 67056-1925

Analytical Result

KDHE Certification No: E-60603
NELAP Accredited Laboratory

LAB LOG NO: AX00538
LOCATION CODE: PERMIT_48417
DESCRIPTION: Irrigation Well, SW-NW-SW 35-23S-4W

Report Date: 08/18/2017
Date/Time Collected: 07/12/2017 14:04
Date/Time Received: 07/27/2017 08:45
Sample Collector RANDOLPH, D.

Comments:

Parameter	Analytical Result	Units	MDL	Analytical Method	Analysis Date and Time	Analyst
Chloride	91.3	mg/L	5.0	EPA 300.0	07/31/2017 13:28	TWHEALDON
Specific Conductance	861	umhos/cm	2	SM 2510 B	07/27/2017 15:22	JMOHAMED

This report is respectfully submitted by Vernon Strasser, Quality Assurance Officer, Wichita Municipal Water and Wastewater Laboratory. If you have any question, please call me at 316-269-4771. The results relate only to the sample as received by the laboratory or taken by Lab staff following the Quality Assurance Plan. This report shall not be reproduced except in full, without the written approval of the laboratory.

Print Date: 8/18/2017

50026

CITY OF WICHITA

FROM: Wichita Municipal Water and Wastewater Lab
Water Treatment Plant
1815 W. Pine St.
Wichita, KS 67203-3230
316-269-4766

TO: Tim Boese, Manager
Equus Beds Groundwater MD#2
313 Spruce Street
Halstead, KS 67056-1925

Analytical Result

KDHE Certification No: E-60603
NELAP Accredited Laboratory

LAB LOG NO: AX00808
LOCATION CODE: PERMIT_48417
DESCRIPTION: Irrigation Well, SW-NW-SW 35-23S-4W

Report Date: 11/28/2017
Date/Time Collected: 11/08/2017 16:16
Date/Time Received: 11/20/2017 13:50
Sample Collector RANDOLPH, D.

Comments:

Parameter	Analytical Result	Units	MDL	Analytical Method	Analysis Date and Time	Analyst
Chloride	70.0	mg/L	5.0	EPA 300.0	11/21/2017 12:33	BJUSTICE
Specific Conductance	834	umhos/cm	2	SM 2510 B	11/21/2017 09:52	PMILLS

This report is respectfully submitted by Vernon Strasser, Quality Assurance Officer, Wichita Municipal Water and Wastewater Laboratory. If you have any question, please call me at 316-269-4771. The results relate only to the sample as received by the laboratory or taken by Lab staff following the Quality Assurance Plan. This report shall not be reproduced except in full, without the written approval of the laboratory.

RECEIVED
NOV 28 2017
Equus Beds Groundwater Management District No. 2

WATER RESOURCES RECEIVED
MAR 28 2018
KS DEPT OF AGRICULTURE

Print Date: 11/28/2017

Entd. 12/19/17 MJR

STATE OF KANSAS

DEPARTMENT OF AGRICULTURE
1320 RESEARCH PARK DRIVE
MANHATTAN, KS 66502
PHONE: (785) 564-6700
FAX: (785) 564-6777

900 SW JACKSON, ROOM 456
TOPEKA, KS 66612
PHONE: (785) 296-3556
www.agriculture.ks.gov

GOVERNOR JEFF COLYER, M.D.
JACKIE MCCLASKEY, SECRETARY OF AGRICULTURE

April 2, 2018

MARY S MCCURRY
11913 E ILLINOIS AVE
BURRTON KS 67020

RE: Application
File No. 50026

Dear Sir or Madam:

Your application for permit to appropriate water in 35-23S-4W in Reno County, was received and has been assigned the file number noted above.

As a matter of record, the Division of Water Resources has on hand a large number of applications awaiting processing. Therefore to be fair to all concerned, and so that we can process those applications on hand in the order they were received, we intend to concentrate on the backlog of applications until the issue is resolved. Once review of your application has begun, we will contact you, if additional information is required.

In accordance with the provisions of the Kansas Water Appropriation Act, a portion of which is included below, the use of water as proposed prior to approval of the application is unlawful. Once approved, compliance with the terms, conditions and limitations of the permit is necessary. Conservation of the water resources of Kansas is required.

Section 82a-728 of the Kansas Water Appropriation Act, provides (a) except for the appropriation of water for the purpose of domestic use, . . . it shall be unlawful for any person to appropriate or threaten to appropriate water from any source without first applying for and obtaining a permit to appropriate water in accordance with the provisions of the Water Appropriation Act or for any person to violate any condition of a vested right, appropriation right or an approved application for a permit to appropriate water for beneficial use.

(b) (1) The violation of any provision of this section by any person is a class C misdemeanor . . .

A class C misdemeanor is punishable by a fine not to exceed $500 and/or a term of confinement not to exceed one month in the county jail. Each day that the violation occurs constitutes a separate offense.

If you have any questions, please contact me at (785) 564-6637. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,

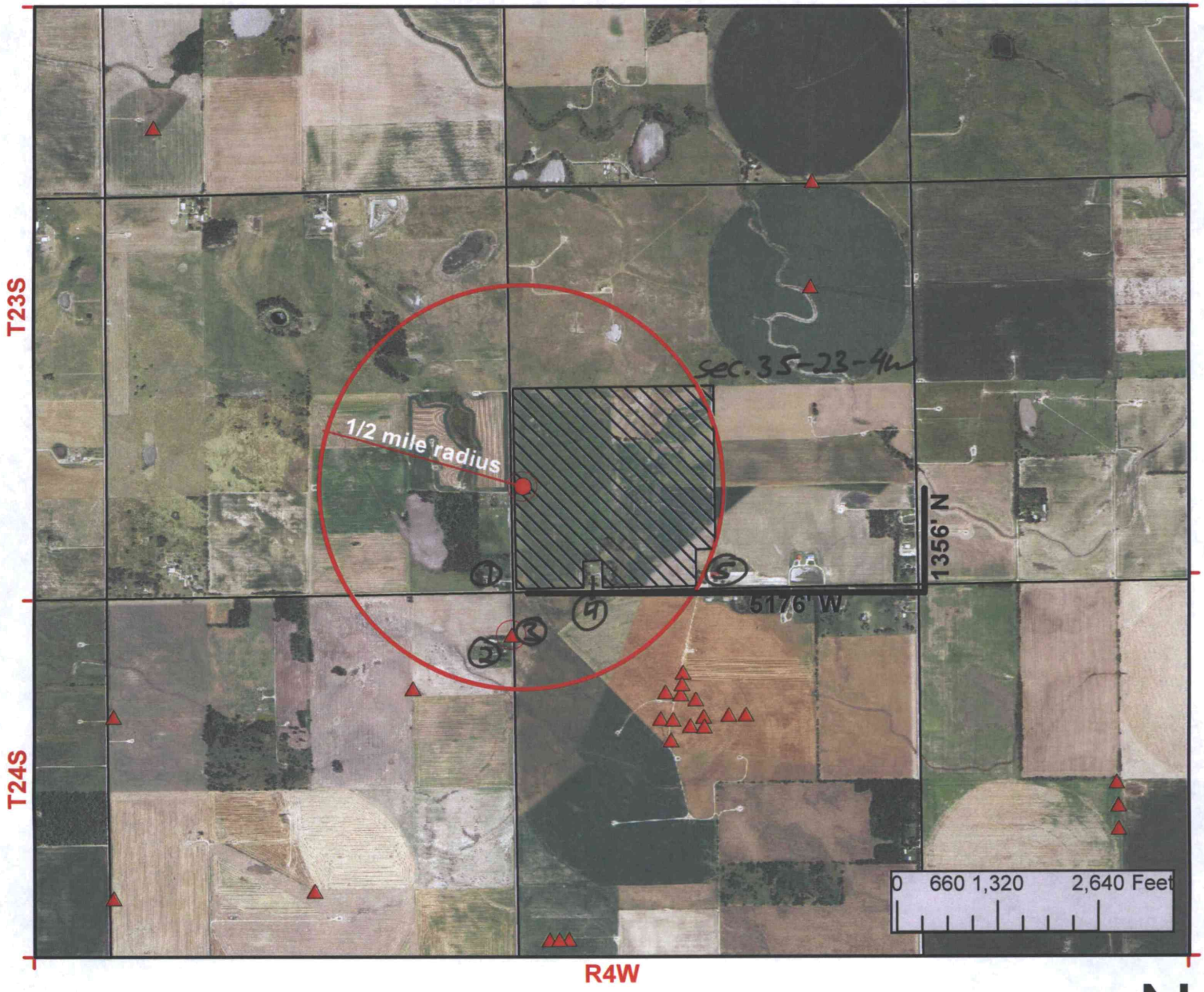
Kristen A. Baum

Kristen A. Baum
New Applications Unit Supervisor
Water Appropriation Program

BAT: dlw
pc: STAFFORD Field Office
GMD 2

50026

New Application Map



I declare that all water wells or diversion sites using the same source of supply and within 1/2 mile of the proposed point of diversion have been plotten on the application map.

Mary A. McCurry
Signature

3-22-18
Date

N

- [x] **New Application**
- [ ] **Application No. To Change:**
  - [ ] Point of Diversion
  - [ ] Place of Use
  - [ ] Use Made of Water

- Proposed Point of Diversion
- Existing Points of Diversion
- Authorized Place of Use
- Proposed Place of Use

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See attached list for well owners within 1/2 mile.

Completed By GMD2 Staff
S. Flaherty - 3/8/2018

50026

Wells Within ½ Mile

1. Domestic Well
   John J. McCurry
   4515 S. Rayl Road
   Burrton, KS 67020

2. Domestic Well
   Gary L. & Christiann L. Rimbey
   4801 S. Rayl Road
   Burrton, KS 67020

3. Irrigation Well – Water Permit No. 49647
   Gary L. & Christiann L. Rimbey
   4801 S. Rayl Road
   Burrton, KS 67020

4. Domestic Well
   Andrew J. McCurry Trust & Mary S. McCurry Trust
   11913 E. Illinois Ave
   Burrton, KS 67020

5. Domestic Well
   Larry W. Matlack Trust & Betty L. Matlack Trust
   13118 E. Stroud Road
   Burrton, KS 67020