

Kansas Department of Agriculture  
Division of Water Resources  
**CHANGE: P/D WORKSHEET**

Document Signature \_\_\_\_\_

1. File Number: <b>3678</b>	2. Status Change Date: <i>10/26/2017</i>	3. Change Num: <b>C1</b>	4. Field Office: <b>01</b>	5. GMD:
6. Status: <input type="checkbox"/> Approved <input type="checkbox"/> Denied by DWR/GMD <input type="checkbox"/> Dismiss by Request/Failure to Return				7. Filing Date of Change: <b>06-FEB-2017</b>
8a. Applicant(s) New to system <input type="checkbox"/>  <b>WATER DIST #1 JOHNSON CO 7601 HOLLIDAY DR KANSAS CITY KS 66106</b>		Person ID <u>8693</u> Add Seq# <u>1</u>		
8b. Landowner(s) New to system <input type="checkbox"/>  <b>WATER DIST #1 JOHNSON CO 7601 HOLLIDAY DR KANSAS CITY KS 66106</b>		Person ID <u>8693</u> Add Seq# <u>1</u>		
8c. Landowner(s) New to system <input type="checkbox"/>		Person ID _____ Add Seq# _____		
8d. WUC New to system <input type="checkbox"/>		Person ID <u>8693</u> Add Seq# <u>1</u>		
9. Documents and Enclosure(s): <input checked="" type="checkbox"/> DWR Meter(s) Date to Comply: <u>12/31/18</u> <input checked="" type="checkbox"/> N & P Date to Comply: <u>12/31/18</u>				
<input type="checkbox"/> Anti-Reverse Meter <input type="checkbox"/> Meter Seal <input checked="" type="checkbox"/> Check Valve <input checked="" type="checkbox"/> N & P Form <input type="checkbox"/> Water Tube <input type="checkbox"/> Driller Copy <input type="checkbox"/> H & E Letter				
<input type="checkbox"/> Conservation Plan    Date Required: _____    Date Approved: _____    Date to Comply: _____				
10. Use Made of Water    From: _____    To: _____				
Date Prepared: <b>10/17/17</b> By: <b>RAK</b> Date Entered: <i>10/30/2017</i> By: <i>UM</i>				

SCANNED

File No. **3678**      11. County: **WY**      Basin: **KANSAS RIVER**      Stream: **KANSAS RIVER**      Formation Code:      Special Use:

12. Points of Diversion Rate and Quantity  
 MOD Authorized  
 DEL Additional  
 ENT PDIV Overlap PD Files

Qualifier	S	T	R	ID	'N	'W	Comment	Rate gpm	Quantity AF	Rate gpm	Quantity AF	Overlap PD Files
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MOD	53516	NW¼ SE¼ SE¼	31	11	24E	1	<u>886</u>	<u>1168</u>	STRUCTURE PERMIT #SWY-0043-KANSAS RIVER			18180, 47083
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ENT	86391	E½ SW¼	22	11	24 E		1578	3125	STRUCTURE PERMIT #LWY-0087 : ERMAN COLLECTOR WELL			3677
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NO CHANGE TO BLANKET RATE AND QUANTITY      34722.22 g.p.m. 24368.4 AF    23006 g.p.m. 19409 AF

13. Storage: Rate \_\_\_\_\_ NF      Quantity \_\_\_\_\_ ac/ft      Additional Rate \_\_\_\_\_ NF      Additional Quantity \_\_\_\_\_ ac/ft

14 **NO CHANGE TO** Limitation: **30,000 AF/YR @34,722 GPM COM/W #3677 FOR MUN USE AS LISTED IN CERT**  
 Limitation: \_\_\_\_\_ af/yr at \_\_\_\_\_ gpm ( \_\_\_\_\_ cfs) when combined with file number(s) \_\_\_\_\_

15. 5YR Allocation: Allocation Type \_\_\_\_\_ Start Year \_\_\_\_\_ 5 YR Amount \_\_\_\_\_ Amount Unit \_\_\_\_\_ Base Acres \_\_\_\_\_ Comment \_\_\_\_\_

16. Place of Use MOD DEL ENT	PUSE	S	T	R	ID	NE¼				NW¼				SW¼				SE¼				Total	Owner	Chg?	Overlap Files	
						NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼	NE ¼	NW ¼	SW ¼	SE ¼					
<b>No changes</b>																										

Comments:

**KANSAS DEPARTMENT OF AGRICULTURE**  
**Division of Water Resources**  
**MEMORANDUM**

**TO:** Files

**DATE:** October 18, 2017

**FROM:** Richelle A. Krueger

**RE:** Water Right  
File Nos. 3,677 and 3,678

Tom Schrempp, on behalf of Water District No. 1 of Johnson County (WaterOne), filed applications for approval to change the authorized points of diversion for Water Right, File Nos. 3,677 and 3,678 both authorized for municipal use.

The referenced water rights do not appear abandoned.

The referenced change applications propose to add the same horizontal collector well (AKA Erman Collector Well) as an authorized point of diversion for each file. File No. 3,677 will provide the groundwater portion of the collector well while File No. 3,678 will provide the surface water component. File No. 3,677 has no overlaps in its twenty-one vertical wells and is authorized a blanket quantity and diversion rate of 10,591 acre-feet and 11,716 gallons per minute. The applicants propose to close out one vertical well and replace it with the horizontal collector well to be located 1,578 feet North and 3,125 feet West of the Southeast corner of Section 22, Township 11 South, Range 24 East, Wyandotte County, Kansas, along the south bank of the Kansas River. File No. 3,678, authorized a limited quantity of 24,368.4 acre-feet and diversion rate of 34,722.22 gallons per minute when combined with File No. 3,677, will provide the surface water portion of the proposed collector well and will also retain its presently authorized pumpsite location on the Kansas River, approximately 3.54 miles upstream from the proposed collector well. File No. 3,678 currently overlaps the authorized points of diversion of Water Right, File No. 18,180 and Appropriation of Water, File No. 47,083.

Ginger Pugh, Engineering Associate, Division of Water Resources, Water Management Services, reviewed the modeling support materials provided by WaterOne in regard to the referenced change applications and found that the results appear to cover all of the necessary investigations related to model runs. Modeling results show 87% of the water pumped through the collector well will be surface water while 13% pumped will be groundwater. Based on the summary provided by Black & Veatch in the form of Draft Memorandum dated July 13, 2017, specifically in reference to Figures 6, 7 and 8 of that summary, the proposed addition of the Erman Collector Well on the south bank of the Kansas River will have a negligible effect on the existing industrial use well owned by Griffin Wheel, Inc. (Water Right, File No. 37,092) located on the North side of the Kansas River. The steady-state and transient groundwater levels are lowered by less than 1 foot and are limited to the area on the south portion of the Kansas River, thus the summary indicates no unreasonable lowering of the water table will be experienced at the location of the Griffin Wheel well nor at other wells in the vicinity and will not cause impairment of any existing water rights.

The twenty vertical wells to remain authorized by File No. 3,677 and the surface water intake to remain authorized by File No. 3,678 will be better described with g.p.s. feet distances obtained during a July 30, 2015 compliance investigation by Topeka Field Office staff. Findings and Orders will be drafted for overlapping File Nos. 18,180 and 47,083 to match the point of diversion description of the intake for File No. 3,678.

Nearby well owners within one-half mile of the proposed collector well and landowners one-half mile upstream and downstream along the Kansas River were notified of the proposed change applications by letters dated July 12, 2017; one phone call inquiry was received July 13, 2017; no objections have been received as of today's date.

SCANNED

Doug Schemm, Environmental Scientist, Topeka Field Office, notified Galen Biery, Kansas River Water Assurance District Director and the Kansas Water Office via e-mail on July 12, 2017 of the referenced applications and gave 15 days to respond; no responses have been received from the Assurance District. In an e-mail dated September 20, 2017 Cara Hendricks, P.E. of the Kansas Water Office, indicated the Kansas Water Office has no objections or issues with the referenced applications.

In an e-mail dated October 16, 2017, Katherine Tietsort, Water Commissioner of the Topeka Field Office, indicated no objection to approval of the referenced applications.

A water flow meter, water level measurement tube and check valve will be required.



1320 Research Park Drive  
Manhattan, Kansas 66502  
(785) 564-6700

900 SW Jackson, Room 456  
Topeka, Kansas 66612  
(785) 296-3556

Jackie McClaskey, Secretary

Governor Sam Brownback

November 2, 2017

WATER DIST #1 JOHNSON CO  
ATTN TOM SCHREMP  
7601 HOLLIDAY DR  
KANSAS CITY KS 66106

**FILE COPY**

RE: Water Right, File Nos. 3,677 and 3,678

Dear Mr. Schrempp:

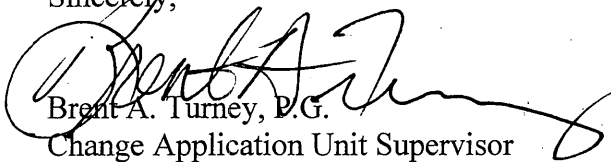
Enclosed are the orders executed by the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, approving the applications for change under the above referenced file numbers.

Your attention is directed to the enclosures and to the terms, conditions, and limitations specified in these approvals for change. A condition of these approvals is that acceptable water flow meters must be installed on the diversion works authorized under the referenced file numbers. Please return the required notification of completion of the diversion works and installation of the required meter as soon as these actions are completed.

Since the orders for the referenced file numbers modify the original documents referred to above they should be recorded with the Register of Deeds as other instruments affecting real estate.

If you have any questions, please contact this office. If you call, please reference the file number so we can help you more efficiently.

Sincerely,

  
Brent A. Turney, P.E.  
Change Application Unit Supervisor  
Water Appropriation Program

Enclosures

pc: Topeka Field Office  
Kansas River Water Assurance District No. 1, Attn Galen Biery  
Kansas Water Office, Attn Cara Hendricks, P.E.

SCANNED



KANSAS DEPARTMENT OF AGRICULTURE  
Jackie McClaskey, Secretary of Agriculture

DIVISION OF WATER RESOURCES  
David W. Barfield, Chief Engineer

APPROVAL OF APPLICATION **ONLY COPY**  
FOR  
CHANGE IN  
POINT OF DIVERSION  
WATER RIGHT  
FILE NO. 3,678

The Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, after due consideration of the written application of Tom Schrempp, on behalf of Water District No. 1 of Johnson County, Kansas, 7601 Holliday Drive, Kansas City, Kansas, 66106, received in this office on February 6, 2017, for approval of a change in the location of the point of diversion under the certificate of appropriation issued pursuant to the application for permit to appropriate water for beneficial use, as modified and amended by the Orders of the Chief Engineer dated December 7, 1987, December 4, 1989, August 7, 1990, and November 18, 1994, approving applications to change the place of use, the Findings and Order of the Chief Engineer dated May 19, 1997, modifying the meter requirement for the change in place of use approval dated November 18, 1994, and by the Order of the Chief Engineer dated July 9, 1997, approving the application to change the place of use, finds that the change is reasonable and will not impair existing rights, and that the application should be and is hereby approved.

The effective date of the change shall be the date this order is executed by the Chief Engineer, after which the authorized locations of the points of diversion shall be:

one (1) **collector well** located in the East Half of the Southwest Quarter (E $\frac{1}{2}$  SW $\frac{1}{4}$ ) of Section 22, more particularly described as being near a point 1,578 feet North and 3,125 feet West of the Southeast corner of said section, and

a point located in the Northwest Quarter of the Southeast Quarter of the Southeast Quarter (NW $\frac{1}{4}$  SE $\frac{1}{4}$  SE $\frac{1}{4}$ ) of Section 31, more particularly described as being near a point 886 feet North and 1,168 feet West of the Southeast corner of said section,

both in Township 11 South, Range 24 East, Wyandotte County, Kansas,

located substantially as shown on the map accompanying the application to change the point of diversion.

Installation of the works for diversion of water shall be completed on or before December 31, 2018, or within any authorized extension of time. The water right owner shall notify the Chief Engineer of the Division of Water Resources, Kansas Department of Agriculture, when construction of the works for diversion has been completed.

All diversion works into which any type of chemical or other foreign substance will be injected into the water pumped from the diversion works shall be equipped with an in-line, automatic, quick-closing check valve capable of preventing pollution of the source of the water supply. The type of valve installed shall meet specifications adopted by the Chief Engineer and shall be maintained in an operating condition satisfactory to the Chief Engineer.

The water right owner shall properly install an acceptable water meter on the diversion works authorized under this water right, prior to the use of water, in strict accordance with the Kansas Administrative Regulations 5-1-4 through 5-1-12 adopted by the Chief Engineer. The water right owner shall notify the Chief Engineer when installation of the water meter has been completed. The water right owner shall maintain the water meter in an operating condition satisfactory to the Chief Engineer, at all times during diversion of water and shall maintain records from which the total quantity of water diverted may be determined. The water right owner shall also report the reading of said water meter and the total quantity of water diverted annually to the Chief Engineer. Such records shall be furnished to the Chief Engineer by March 1 following the end of each calendar year.

In all other respects, the Certificate of Appropriation issued pursuant to Approval of Application, File No. 3,678, for permit to appropriate water for beneficial use, is as stated and set forth in the Certificate of Appropriation dated November 3, 1987, as modified and amended by the aforementioned orders.

#### **RIGHT TO A HEARING AND TO ADMINISTRATIVE REVIEW**

If you are aggrieved by this Order, then pursuant to K.S.A. 82a-1901, you may:

- 1) request an evidentiary hearing before the Chief Engineer, or
- 2) request administrative review by the Secretary of Agriculture.

Failure to request an evidentiary hearing before the Chief Engineer does not preclude your right to administrative review by the Secretary.

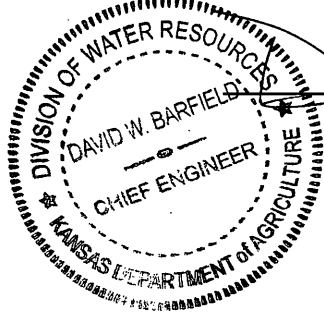
To obtain an evidentiary hearing before the Chief Engineer, a written request for hearing must be filed within 15 days after service of this Order as provided in K.S.A. 77-531 (**i.e., within a total of 18 days after this Order was mailed to you**), with the Kansas Department of Agriculture, Attn: Legal Section, 1320 Research Park Drive, Manhattan, KS 66502, or by FAX (785) 564-6777.

If you do not file a request for an evidentiary hearing before the Chief Engineer, you may petition for administrative review of the Order by the Secretary of Agriculture. A petition for review shall be in writing and state the basis for requesting administrative review. The request for review may be denied if the request fails to clearly establish factual or legal issues for review. See K.S.A. 77-527. The petition must be filed within 30 days after service of this Order as provided in K.S.A. 77-531 (**i.e., within a total of 33 days after this Order was mailed to you**), and be filed with the Secretary of Agriculture, Attn: Legal Division, Kansas Department of Agriculture, 1320 Research Park Drive, Manhattan, KS 66502, or by FAX (785) 564-6777.

If neither a request for an evidentiary hearing nor a petition for administrative review is filed as set forth above, then this Order shall be effective and become a final agency action as defined in K.S.A. 77-607(b). Failure to timely request either an evidentiary hearing or administrative review may preclude further judicial review under the Kansas Judicial Review Act.

Any request for hearing or petition for administrative review shall be in writing and shall be submitted to the attention of: Chief Legal Counsel, Kansas Department of Agriculture, 1320 Research Park Drive, Manhattan, Kansas 66502, Fax: (785) 564 – 6777.

Ordered this 26<sup>th</sup> day of October, 2017, at Topeka, Shawnee County, Kansas.



*David W. Barfield*  
David W. Barfield, P.E.  
Chief Engineer  
Division of Water Resources  
Kansas Department of Agriculture

State of Kansas )  
                          ) SS  
County of Riley )

The foregoing instrument was acknowledged before me this 26<sup>th</sup> day of October, 2017, by David W. Barfield, P.E., Chief Engineer, Division of Water Resources, Kansas Department of Agriculture.



*Karen Hunter*  
Notary Public

**CERTIFICATE OF SERVICE**

On this 2<sup>nd</sup> day of November, 2017, I hereby certify that the foregoing Approval of Application for Change in Point of Diversion, File No. 3,678, dated October 26<sup>th</sup>, 2017 was mailed postage prepaid, first class, US mail to the following:

WATER DIST #1 JOHNSON CO  
7601 HOLLIDAY DR  
KANSAS CITY KS 66106

With photocopies to:

KANSAS RIVER WATER ASSURANCE DISTRICT NO 1  
%GALEN BIERY  
212 SW 7<sup>th</sup> STREET  
TOPEKA KS 66603-3717

KANSAS WATER OFFICE  
900 SW JACKSON SUITE 404  
TOPEKA KS 66612

Topeka Field Office

*Danielle Wilson*  
Division of Water Resources



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

**APPLICATION FOR APPROVAL TO  
CHANGE THE PLACE OF USE, THE  
POINT OF DIVERSION OR THE USE  
MADE OF THE WATER UNDER AN  
EXISTING WATER RIGHT**



State of Kansas

**Filing Fee Must Accompany the Application**  
(Please refer to Fee Schedule on signature page of application form.)

Paragraph Nos. 1, 2, 3, 4 & 8 must be completed. Complete all other applicable portions. A topographic map or detailed plat showing the authorized and proposed points(s) of diversion and /or place of use must accompany this application.

1. Application is hereby made for approval of the Chief Engineer to change the

- Place of Use  
 Point of Diversion  
 Use Made of Water

(Check one or more)

**WATER RESOURCES  
RECEIVED**  
**FEB 06 2017**  
**11:38**  
**KANSAS DEPT OF AGRICULTURE**

File No. 3,678

2. Name of applicant: WATER DISTRICT #1 JOHNSON CO

Address: 7601 HOLLIDAY DRIVE

City, State and Zip: KANSAS CITY KS 66106

Phone Number: ( 913 ) 895-5820 E-mail address: tschrempp@waterone.org

What is your relationship to the water right;  owner  tenant  agent  other? If other, please explain. \_\_\_\_\_

Name of water use correspondent: SAME AS OWNER

Address: \_\_\_\_\_

City, State and Zip: \_\_\_\_\_

Phone Number: ( \_\_\_\_\_ ) \_\_\_\_\_ E-mail address: \_\_\_\_\_

3. The change(s) proposed herein are desired for the following reasons (please be specific): \_\_\_\_\_

To add a point of diversion to authorize the surface water component of a collector well to be built.

(Please update intake location per GPS on file).

The change(s) (was) (will be) completed by upon approval

(Date)

For Office Use Only:	
F.O. <u>1</u> <u>GMD</u> <u>0</u> Meets K.A.R. 5-5-1 (YES/NO) Use <u>ANN</u> Source <u>G</u> <u>S</u> County <u>WY</u> By <u>AW</u> Date <u>2/6/17</u>	
Code <u>CGT</u> Fee \$ <u>300</u> TR # _____ Receipt Date <u>2/6/17</u> Check # <u>120568</u>	

APPLICATION COMPLETE

10/1/17  
Reviewer [Signature]

4. The presently authorized place of use is:

Owner of Land — NAME: NO CHANGE

ADDRESS: \_\_\_\_\_

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES		
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼			

List any other water rights that cover this place of use. \_\_\_\_\_

Owner of Land — NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES			
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼				

List any other water rights that cover this place of use. \_\_\_\_\_

(If there are more than two landowners, attach additional sheets as necessary.)

5. It is proposed that the place of use be changed to:

Owner of Land — NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES				
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼					

List any other water rights that cover this place of use. \_\_\_\_\_

Owner of Land — NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

Sec.	Twp.	Range	NE¼				NW¼				SW¼				SE¼				TOTAL ACRES					
			NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼	NE¼	NW¼	SW¼	SE¼						

List any other water rights that cover this place of use. \_\_\_\_\_

**IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY**

- 6. The presently authorized point(s) of diversion (is) (are) 1 intake  
(Provide description and number of points)
- 7. The proposed point(s) of diversion (is) (are) 1 intake and the SW component of 1 RANNEY WELL  
(Provide description and number of points)

List all presently authorized point(s) of diversion:

8. **Presently authorized point of diversion:** Existing KS SW Intake

One in the NW Quarter of the SE Quarter of the SE Quarter of Section 31, Township 11 South, Range 24 E (E/W), in WY County, Kansas, 900 feet North 1300 feet West of Southeast corner of section.

Authorized Rate \_\_\_\_\_ Authorized Quantity \_\_\_\_\_

(DWR use only: Computer ID No. 1 GPS 886 feet North 1168 feet West)

This point will not be changed  This point will be changed as follows: \* GPS update only

**Proposed point of diversion: (Complete only if change is requested)**

\* One in the NW Quarter of the SE Quarter of the SE Quarter of Section 31, Township 11 South, Range 24 E (E/W), in WY County, Kansas, 886 feet North 1168 feet West of Southeast corner of section.

Proposed Rate \_\_\_\_\_ Proposed Quantity \_\_\_\_\_

This point is:  Additional Well  Geo Center List other water rights that will use this point \_\_\_\_\_

9. **Presently authorized point of diversion:**

One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ (E/W), in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section.

Authorized Rate \_\_\_\_\_ Authorized Quantity \_\_\_\_\_

(DWR use only: Computer ID No. \_\_\_\_\_ GPS \_\_\_\_\_ feet North \_\_\_\_\_ feet West)

This point will not be changed  This point will be changed as follows: **POINT TO BE ADDED**

**Proposed point of diversion: (Complete only if change is requested)** KS Horizontal Collector Well

One in the South Bank KS River Quarter of the East 1/2 Quarter of the SW Quarter of Section 22, Township 11 South, Range 24E (E/W), in WY County, Kansas, 1577.6-1578 feet North 3125.4-3125 feet West of Southeast corner of section.

Proposed Rate 5.5 MGD Proposed Quantity 4972 AF/yr

This point is:  Additional Well  Geo Center List other water rights that will use this point None

10. **Presently authorized point of diversion:**

One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ (E/W), in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section.

Authorized Rate \_\_\_\_\_ Authorized Quantity \_\_\_\_\_

(DWR use only: Computer ID No. \_\_\_\_\_ GPS \_\_\_\_\_ feet North \_\_\_\_\_ feet West)

This point will not be changed  This point will be changed as follows:

**Proposed point of diversion: (Complete only if change is requested)**

One in the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of the \_\_\_\_\_ Quarter of Section \_\_\_\_\_, Township \_\_\_\_\_ South, Range \_\_\_\_\_ (E/W), in \_\_\_\_\_ County, Kansas, \_\_\_\_\_ feet North \_\_\_\_\_ feet West of Southeast corner of section.

Proposed Rate \_\_\_\_\_ Proposed Quantity \_\_\_\_\_

This point is:  Additional Well  Geo Center List other water rights that will use this point \_\_\_\_\_

11. Describe the current condition of and future plans for any point(s) of diversion which will no longer be used. Well will be plugged per KDHE requirements.

IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY

RECEIVED

WATER RESOURCES RECEIVED

FEB 06 2017

SCANNED

KS DEPT OF AGRICULTURE

KS DEPT OF AGRICULTURE

\* Modified per 7/26/17 phone conversation w KAT/TFO  
 Per 7/30/15 Compliance Investigation TFO  
 \* RAIL/DWR 8/2/17

12. The presently authorized use of water is for NO CHANGE purposes.  
It is proposed that the use be changed to \_\_\_\_\_ purposes.

13. If changing the place of use and/or use made of water, describe how the consumptive use will not be increased.

Anticipated surface water component is max rate of 5.5 MGD, max quantity 4972 AF/year.

Based on 5.5 MGD for 9 months and 3.5 MGD for 3 months.

(Please show any calculations here.)

14. It is requested that the maximum annual quantity of water be reduced to No reduction (acre-feet or million gallons).

15. It is requested that the maximum rate of diversion of water be reduced to No reduction gallons per minute (\_\_\_\_ c.f.s.).

16. The application must include either a topographic map or detailed plat. A U.S. Geological Survey Topographic Map, scale 1:24,000, is available through the Kansas Geological Survey, 1930 Constant Avenue, University of Kansas, Lawrence, Kansas 66047-3726 ([www.usgs.gov](http://www.usgs.gov)). The map should show the location of the presently authorized point(s) of diversion. Distances North and West of the Southeast corner of the section must be shown. The presently authorized place of use should also be shown. Identify the center of the section, the section lines and the section corners and show the appropriate section, township, and range numbers on the map. In addition the following information must also be shown on the map.

a. If a change in the location of the point(s) of diversion is proposed, show:

- 1) The location of the proposed point(s) of diversion. Distances North and West of the Southeast corner of the section must be shown. Please be certain that the information shown on the map agrees with the information shown in Paragraph Nos. 9, 10 and 11 of the application.
- 2) If the source of supply is groundwater, please show the location of existing water wells of any kind, including domestic wells, within 1/2 mile of the proposed well or wells. Identify each well as to its use and furnish name and mailing address of the property owner or owners. If there are no wells within 1/2 mile, please indicate so on the map.
- 3) If the source of supply is surface water, the names and mailing addresses of all landowner(s) 1/2 mile downstream and 1/2 mile upstream from your property lines must be shown.

b. If a change in the place of use is desired, show the proposed place of use by crosshatching on the map. Please be certain that the information shown on the map agrees with the information shown in Paragraph No. 5 of the application.

17. Attach documentation to show the change(s) proposed herein will not impair existing water rights and relates to the same local source of supply as to which the water right relates. This information may include statements, plats, geology reports, well logs, test hole logs, and other information as necessary information to show the above. Additional comments may be made below.

See attached modeling results. Source of supply is the same. Local source of supply is the same.

18. If the proposed change(s) does not meet all applicable rules and regulations of the Kansas Water Appropriation Act, please identify the rules and regulations for which you request a waiver. State the reason why a waiver is needed and why the request should be granted. Attach documentation showing that granting the request will not impair existing water rights and will not prejudicially and unreasonably affect the public interest.

Meets all applicable rules and regulations.

**IF MORE SPACE IS NEEDED, ATTACH ADDITIONAL SHEETS AS NECESSARY**

Any use of water that is not as authorized by the water right or permit to authorize water **before** the chief engineer approves this application is a violation of the Kansas Water Appropriation Act for which criminal or civil penalties may be assessed. Such violation is a class C misdemeanor, punishable by a fine not to exceed \$500 and/or a term of confinement not to exceed one month in the county jail. K.S.A. 82a-728(b). Civil penalties shall be not less than \$100 nor more than \$1,000 per violation. In the case of a continuing violation, each day such violation continues may be deemed a separate violation. In addition to these penalties the water right may be modified or suspended. K.S.A. 82a-737, as amended.

**The application must be signed by all owners of the place of use authorized under the water right and his or her spouse, if married. Please indicate if there is no spouse.** If land is being purchased under contract, the seller must sign as landowner until such time as the contract is completed.

In the event that all applicants cannot appear before one notary public, they may as necessary sign separate copies of the application before any notary public conveniently available to them. All copies signed in this manner shall be considered to be valid parts of the application.

If the request is signed on behalf of any Owner by someone with legal authority to do so (for example, an agent, one who has power of attorney, or an executor, executrix, conservator), it will be necessary to attach proper documents showing such authority.

I declare that I am an owner of the currently authorized place of use as identified herein, or that I represent all such owners and am authorized to make this application on their behalf, and declare further that the statements contained herein are true, correct, and complete. By filing this application I authorize the chief engineer to permanently reduce the quantity of water and/or rate of diversion as specified in sections 14 and 15 of this application.

Dated at Kansas City, Kansas, this 2nd day of February, 2017.

Tom Schrempp  
(Owner)

\_\_\_\_\_  
(Spouse)

Tom Schrempp  
(Please Print)

\_\_\_\_\_  
(Please Print)

\_\_\_\_\_  
(Owner)

\_\_\_\_\_  
(Spouse)

\_\_\_\_\_  
(Please Print)

\_\_\_\_\_  
(Please Print)

\_\_\_\_\_  
(Owner)

\_\_\_\_\_  
(Spouse)

\_\_\_\_\_  
(Please Print)

\_\_\_\_\_  
(Please Print)



State of Kansas }  
County of Wyandotte } SS

I hereby certify that the foregoing application was signed in my presence and sworn to before me this 2nd day of February, 2017.

Sandra G. Paterson  
Notary Public

My Commission Expires 7/10/18

**FEE SCHEDULE**

Each application to change the place of use, the point of diversion or the use made of the water under this section shall be accompanied by the application fee set forth in the schedule below:

- (1) Application to change a point of diversion 300 feet or less ..... \$100
- (2) Application to change a point of diversion more than 300 feet ..... \$200
- (3) Application to change the place of use ..... \$200
- (4) Application to change the use made of the water ..... \$300

Make check payable to **Kansas Department of Agriculture.**

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Attachment A  
Description Items Requested in the Instruction Sheet

Item 1. Signed Applications by WaterOne (land owner).

Item 2. Change is marked on the forms.

Item 3. Not Applicable.

Item 4. The requested new Point of Diversion is shown on the included on the Change in Point of Diversion Maps. Also included is the WaterOne Boundary map.

The description of the WaterOne Point Of Use is the following: Within the Service Area boundaries of Water District No. 1 of Johnson County Kansas, City of Olathe and immediate vicinity within area served by BPU of Kansas City, KS, and in emergency the cities of Bonner Springs, Spring Hill, and Kansas City, MO.

Item 5. Legal description of the Point of Diversion land is included. Distances North and West of Southeast corner of Section is shown on Request Form.

Item 6. The Ground Water production rate solution covered by this request is a Horizontal Collector Well located as described on the included request map. This facility will be equipped with appropriate appurtenances including metering (acceptable to the Chief Engineer for the Division of Water Resources) as well as water level monitoring facilities and piping connecting to the Hansen Treatment Facilities. The proposed completion date for this Collector Well is March 16, 2018.

Item 7. The reason for the change request is based on the fact that the temperature of the ground water is beneficial to several treatment issues in the process of producing potable water and the Hansen Treatment Plant. The most important benefit is the ability to reduce ice buildup on the treatment clarifiers, thus reducing the risk of equipment damage from the ice buildup. Currently the available amount of water that can be produced in the Kansas River Wellfield is just enough warm water to control ice buildup in a mild winter. To be prepared for more severe winter temperatures, more warm well water is needed.

Well production rates have declined of the last 20 years as the Kansas River and Missouri River water surfaces have declined from river bed degradation. The declining river water surface levels have caused the depth to ground water levels to increase and recently the existing WaterOne wells have struggled to produce an adequate amount of warm water.

Item 8. Included is a copy of the design study for this collector well dated June 2015. This study discusses the testing and analysis of several options to improve the Ground Water production from the WaterOne Kansas River Wellfield. From the results of the Study it was determined to construct the Collector Well on the Erman site. Also attached is an email and drawing from Black & Veatch staff regarding locations of existing wells within ½ mile radius of the collector well.

Item 9. Proper contact information is included on the signature pages of the Request forms.

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# WaterOne

Water District No. 1 of Johnson County

File No 3678  
Setting the Standard for  
Utility Excellence

February 2, 2017

Mr. David Barfield, Chief Engineer  
Kansas Dept. of Agriculture  
Division of Water Resources  
109 S.W. 9<sup>th</sup>, Second Floor  
Topeka, KS 66612-1283

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Re: Application for Request of Approval to Change the Point of Diversion Under Existing Water Rights No. 3677 and 3678

Dear Mr. Barfield:

Please find the executed copies of the requests to relocate a portion of each of the two Water Rights for the purpose of improving the production rate of the existing Kansas River Wellfield. One Request form is to cover a portion of the ground water quantity needed and one Request is to cover a portion of the surface water quantity needed.

The Wellfield improvement is being done by constructing a horizontal collector well and connecting piping in the immediate area of the existing WaterOne Kansas River Wellfield.

Attached is the supporting documentation:

- A check in the amount of \$400. This is to cover the cost of changing the Point of Diversion a distance of more than 300 feet for each of the two Water Rights.
- Executed copies of Form DWR 1-120 (Revised 06/16/2014). One form is to cover the requested changes to Surface Water Right File No. 3678. The other is to cover the requested changes to Ground Water Right File No. 3677.
- Please note on item 13 of each request form that the Expected Rate and Quantity for the Ground Water Component is noted on the 3677 form, and the Surface Water Component is noted on the 3678 form.
- The existing structure that WaterOne calls Kansas River Well No. 18 will be permanently removed from service and plugged per KDHE requirements.
- A map that shows the existing location and the requested changed location of Point of Diversion for the Surface Water Right.



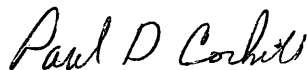
Mr. Barfield  
February 2, 2017  
Page 2

- A map that shows the existing location and the requested location of the point of diversion for the Ground Water Right.
- A boundary map of the WaterOne distribution system that shows the Point of Use area.
- Legal description of the requested new Point of Diversion.
- Attachment A that covers the description items shown in the instruction sheet for form DWR 1-120.1 (Revised 06/29/2009).

---

Please contact me if any additional information is required.

Sincerely,



Paul Corkill, P.E.  
Water Planning and Asset Management

Enclosures

cc: Mike Armstrong  
Tom Schrempp  
Eric Arner

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**Paul D. Corkill**

**From:** Winger, James G. (Jim) <WingerJG@bv.com>  
**Sent:** Friday, January 27, 2017 11:08 AM  
**To:** Paul D. Corkill  
**Subject:** FW: WaterOne KS River HCW - Existing Wells  
**Attachments:** ks river hcw.jpg

Paul,

Please see the e-mail below and the attached figure identifying the location of other wells near WaterOne's wellfield site.

Jim

**JAMES G. WINGER | Project Manager, Water**  
Black & Veatch Corporation | 8400 Ward Parkway, Kansas City, MO 64114  
913-458-3484 P | 913-633-8680 C | [wingerjg@BV.com](mailto:wingerjg@BV.com)  
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Please consider the environment before printing my email  
Please note that the information and attachments in this email are intended for the exclusive use of the addressee and may contain confidential or privileged information. If you are not the intended recipient, please do not forward, copy or print the message or its attachments. Notify me at the above address, and delete this message and any attachments. Thank you.

**From:** Hahn, Kristopher (Kris)  
**Sent:** Friday, January 27, 2017 10:41 AM  
**To:** Winger, Judy J.; Henson, Jeffrey (Jeff)  
**Subject:** WaterOne KS River HCW - Existing Wells

Good morning,  
The attachment provides a summary of well locations as provided in KS Geological Survey's Water Well Database (WWC5) <http://www.kgs.ku.edu/Magellan/WaterWell/index.html>  
I ignored any well in the database with the following labels: "monitoring well/observation well/piezometer", "test hole", "abandoned", "plugged", and "air sparging" which presumably refers to a remediation well. Most of these have no reported water use in recent years. The "Carey" industrial well has reported water use, but is outside of the 1/2 mile radius from tips of the HCW laterals and is also located on the other side of the river where the influence of the HCW would be reduced. FYI, when we did this for the Wolcott HCW, we provided the State with the calculated drawdown contours for the well (I think 5-ft drawdown and 1-ft drawdown). I did not see WaterOne's existing vertical wells in the database, so there is a chance there are other existing wells in this area that are not in KGS's database.  
Kris

**Kristopher Hahn, P.E. | Water Resources Engineer**  
Black & Veatch Corporation | 8400 Ward Parkway, Kansas City, MO 64114  
913-458-3213 P | 913-458-3626 F | [HahnK@BV.com](mailto:HahnK@BV.com)  
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**2017R-01223**  
**NANCY BURNS**  
**REGISTER OF DEEDS**  
**WYANDOTTE COUNTY, KS**  
**RECORDED ON**  
**01/25/2017 12:35:45 PM**  
**DEED FEE: 44.00**  
**TECHNOLOGY FEE: 12.00**  
**HERITAGE FEE: 4.00**  
**PAGES: 4**

**QUIT CLAIM DEED**

Exemption #12

Erman Corporation, Inc., (herein "Grantor") for and in consideration of the sum of Ten and No/100 Dollars (\$10.00), the receipt of which is hereby acknowledged, does by these presents, REMISE, RELEASE, and forever QUIT-CLAIM unto Water District No. 1 of Johnson County, Kansas, whose address is 10747 Renner Boulevard, Lenexa, Kansas 66219 (herein "Grantee"), its successors and assigns, all of Grantor's right, title, and interest in the land situated in Wyandotte County, Kansas, described on Exhibit A hereto.

**TO HAVE AND TO HOLD THE SAME**, with all the rights, privileges, appurtenances, and immunities thereto belonging unto Grantee and unto its successors and assigns forever; so that neither the Grantor, nor any other person or entity, for it or in its name or behalf, shall or will hereafter claim or demand any right or title to the aforesaid premises or any part thereof, but they and each of them shall, by these presents, be excluded and forever barred.

WITNESS THE HAND of said Grantor this 24 day of January, 2017.

ERMAN CORPORATION, INC.

By: Walter T. Roth  
Walter T. Roth, President

20170125 RC  
Chicago Title Company, LLC

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STATE OF Kansas )  
COUNTY OF Wyandotte ) ss:

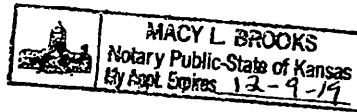
On this 24<sup>th</sup> day of January, 2017, before me, the undersigned, a Notary Public in and for said County and State, personally appeared Walter T. Roth, the President of Erman Corporation, Inc., to me known to be the person described herein who executed the foregoing instrument, and acknowledged that he executed the same as his free act and deed on behalf of Erman Corporation, Inc.

WITNESS my hand and Notarial Seal subscribed and affixed in said County and State, the day and year in this certificate above written.

Macy L Brooks  
Notary Public

My Appointment Expires:

12-9-2019



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**EXHIBIT A**

Parcel NO: 925902

**Legal Description**

ALL OF THE WEST 1/2 OF THE SOUTHWEST 1/4 OF FRACTIONAL SECTION 22, TOWNSHIP 11, RANGE 24 EAST LYING SOUTH OF THE KANSAS RIVER TOGETHER WITH A 17.246 ACRE TRACT LYING IN THE EAST 1/2 OF SAID SOUTHWEST 1/4 AND ALL OF THE NORTHWEST 1/2 OF THE NORTHWEST 1/4 OF SECTION 27, TOWNSHIP 11, RANGE 24 EAST, LYING NORTH OF THE ATCHISON, TOPEKA AND SANTA FE RAILROAD, EXCEPT A 17.246 ACRE TRACT. ALL MORE PARTICULARLY DESCRIBED BY KENNETH J. DEDRICK ON THIS 28TH DAY OF OCTOBER, 2016 AS FOLLOWS:

ALL THE WEST 1/2 OF THE SOUTHWEST 1/4 OF SAID FRACTIONAL SECTION 22 LYING SOUTH OF THE KANSAS RIVER AND ALL OF A 17.246 ACRE PARCEL OF LAND LYING IN THE EAST 1/2 OF SAID SOUTHWEST 1/4 DESCRIBED AS; COMMENCING AT THE SOUTHEAST CORNER OF THE EAST 1/2 OF THE SOUTHWEST QUARTER OF SAID FRACTIONAL SECTION 22 (THIS AND ALL OF THE FOLLOWING BEARINGS ARE BASED ON KANSAS STATE PLANE NORTH ZONE JOHNSON COUNTY CONTROL NETWORK - JCPW 1011); THENCE N 02°25'52" W ALONG THE EAST LINE OF SAID SECTION, A DISTANCE OF 1174.84 FEET TO A 1/2" X 24" REBAR WITH CLS-20 CAP AND THE POINT OF BEGINNING; THENCE S 88°13'08" W, A DISTANCE OF 1316.75 FEET TO A 1/2" X 24" REBAR WITH CLS-20 CAP LYING ON THE WEST LINE OF SAID TRACT; THENCE N 01°46'52" W ALONG SAID WEST LINE, A DISTANCE OF 473.87 FEET TO THE MEAN HIGH WATER LINE OF THE KANSAS RIVER; THENCE MEANDERING ALONG SAID MEAN HIGH WATER LINE, THE FOLLOWING FIVE (5) COURSES: N 77°50'52" E, A DISTANCE OF 209.84 FEET; THENCE N 78°21'04" E, A DISTANCE OF 148.31 FEET; THENCE N 79°22'30" E, A DISTANCE OF 284.72 FEET; THENCE N 83°19'00" E, A DISTANCE OF 370.47 FEET; THENCE N 81°41'38" E, A DISTANCE OF 308.42 FEET TO THE EAST LINE OF SAID QUARTER; THENCE S 02°25'52" E ALONG SAID LINE, A DISTANCE OF 647.58 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH ALL OF THE WEST 1/2 OF THE NORTHWEST 1/4 OF SAID SECTION 27 EXCEPT A 17.246 ACRE TRACT DESCRIBED AS: COMMENCING AT AN 80d NAIL FOUND AT THE NORTHEAST CORNER SAID NORTHWEST QUARTER SECTION 27, AS SHOWN OF THE CERTIFICATE OF SURVEY BY RHODES SURVEYORS, P.A., FILE NUMBER 84183, DATED FEBRUARY 4, 1985; THENCE S 88°17'33" W (S 89°38'23" W SURVEY)(THIS AND ALL OF THE FOLLOWING BEARINGS ARE BASED ON KANSAS STATE PLANE NORTH ZONE JOHNSON COUNTY CONTROL NETWORK - JCPW 1011) ALONG THE NORTH LINE OF SAID SECTION, A DISTANCE OF 1329.48 FEET (1330.17 SURVEY) TO A 1" IRON PIN WITH A PUNCH MARK FOUND AND THE POINT OF BEGINNING; THENCE S 01°50'06" E (S 00°00'00" E DEED)(S 00°11'25" W SURVEY), ALONG THE EAST LINE OF SAID WEST 1/2, A DISTANCE OF 996.68 FEET TO A 1/2" REBAR WITH A CLS-20 CAP ON THE NORTHWESTERLY RIGHT-OF-WAY LINE OF ATCHISON, TOPEKA AND SANTA FE RAILWAY COMPANY LYING 100.00 FEET

NORTHWESTERLY OF THE CENTERLINE OF THAT CERTAIN TRACK DESIGNATED IN THE RECORDS OF THE ATCHISON, TOPEKA AND SANTA FE RAILWAY COMPANY AS MAIN TRACK NO. 3, FILE NUMBER 11026967, AS MEASURED NORMAL THERETO; THENCE S 48°51'40" W (S 51°42'58" W DEED), ALONG SAID RIGHT-OF-WAY LINE, NORTHWESTERLY OF AND PARALLEL TO SAID MAIN TRACK NO. 3, A DISTANCE OF 291.88 FEET (212.85 FEET SURVEY) (219.07 FEET DEED), TO A ½" REBAR WITH A CLS-20 CAP; THENCE SOUTHWESTERLY, CONTINUING ON SAID RIGHT-OF-WAY LINE, ON A CURVE TO THE RIGHT, TANGENT WITH THE LAST DESCRIBED COURSE, WITH A RADIUS OF 15,761.00 FEET (17,089.34 FEET DEED) AND AN ARC DISTANCE OF 432.07 FEET (491.47 FEET DEED) TO A ½" IRON BAR WITH "GRESHAM" CAP FOUND; THENCE S 50°25'55" W (S 53°21'50" W DEED), CONTINUING ALONG SAID RIGHT-OF-WAY, A DISTANCE OF 51.27 FEET TO A ½" REBAR WITH A CLS-20 CAP; THENCE NORTH 01°50'06" WEST, A DISTANCE OF 1,483.59 FEET TO A ½" REBAR WITH A CLS-20 CAP ON THE NORTH LINE OF SAID SECTION; THENCE NORTH 88°18'45" EAST, ALONG SAID NORTH LINE, A DISTANCE OF 604.45 FEET TO THE POINT OF BEGINNING.

CONTAINS 4,156,550 SQUARE FEET OR 95.421 ACRES MORE OR LESS.

# WaterOne

Setting the Standard for  
Utility Excellence

Water District No. 1 of Johnson County

February 28, 2017

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Certified Mail

Mr. Brent Turney  
Change Applications Unit Supervisor  
Water Appropriation Program  
Kansas Dept. of Agriculture  
1320 Research Park Drive  
Manhattan, KS 66502

Re: Application for Request of Approval to Change the Point of Diversion Under  
Existing Water Rights No. 3677 and 3678

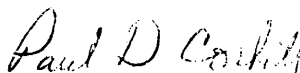
Dear Mr. Turney:

Enclosed is the additional information to accompany the Change In Point of Diversion  
Application mentioned above.

The information includes a map showing the location of the properties within ½ mile of  
the WaterOne horizontal collector well property. Also included is a list of the property  
owners' names, addresses, and Kansas City, KS parcel numbers for the properties.

Please contact me if any additional information is required.

Sincerely,



Paul Corkill, P.E.  
Water Planning and Asset Management

Enclosures

cc: Mike Armstrong  
Tom Schrempp  
Michelle Wirth  
Eric Arner



**Additional Information: Application for Request of Approval to Change the Point of Diversion Under Existing Water Rights No. 3677 and 3678**

List of Names and Addresses of property owners within ½ mile upstream and ½ mile downstream from WaterOne owned collector well property. Items 1 through 15 correspond to the locations identified on attached Map of Property Locations.

1. Parcel 926711: Morris Land Development LLC, 6600 R Thorn Dr, Kansas City, KS 66106
2. Parcel 925801: Water District No. 1 of Johnson County, 6801 R Thorn Dr., Kansas City, KS 66106
3. Parcel 925802: Erman Corp. Inc., 6701 R Thorn Dr., Kansas City, KS 66106
4. Parcel 923103: Erman Corp. Inc., 6600 Thorn Dr., Kansas City, KS 66106
5. Parcel 238007: COPART of Kansas Inc., Attn: Tax Department, 6211 Kansas Ave, Kansas City, KS 66111
6. Parcel 923205: Coreslab Structures Inc., 759 S. 65<sup>th</sup> ST, Kansas City, KS 66111
7. Parcel 233126: Knapp, Ronald A, 6563 Miami Ave, Kansas City, KS 66111
8. Parcel 233114: Barton Solvents Inc., 901 S. 66<sup>th</sup> Terr, Kansas City, KS 66111
9. Parcel 233113: New Century Partners LLC, 1000 S. 66<sup>th</sup> Terr. Kansas City, KS 66111
10. Parcel 925711: Union Pacific Railroad Company, 6623 Kaw Dr. Kansas City, KS 66111
11. Parcel 925800: BD of Public Utilities, 1001 S 68<sup>th</sup> Street, Kansas City, KS 66111
12. Missouri Walnut LLC, 990 S 68<sup>th</sup> Street, Kansas City, KS 66111
13. Parcel 925703: Griffin Wheel Company Inc., 7111 Griffin Rd. Kansas City, KS 66111
14. Parcel 926709: 7259 Kaw LLC, 7259 Kaw Dr. Kansas City, KS 66111
15. G&G Holdings, LLC, 7241 Kaw Dr. Kansas City, KS 66111

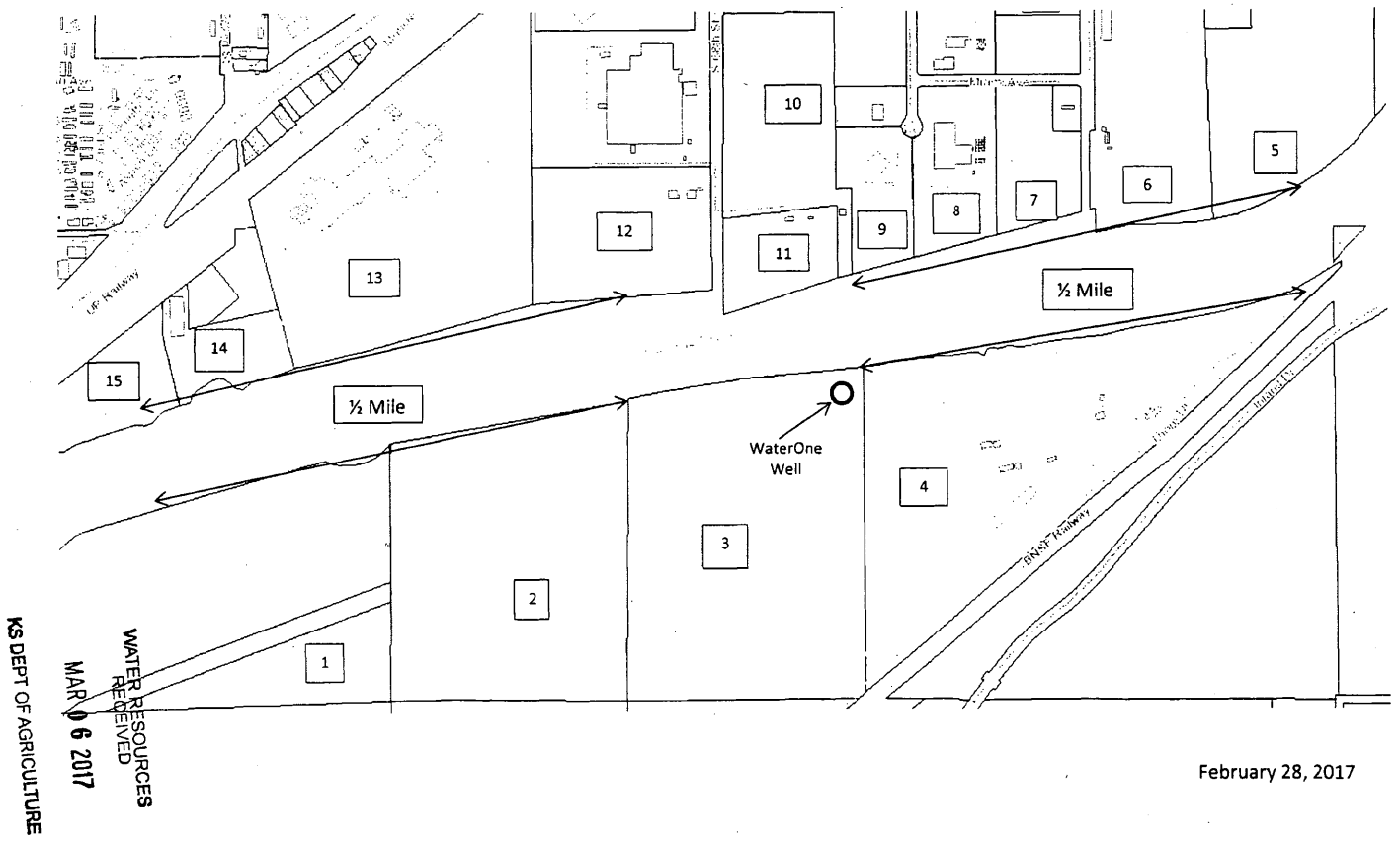
February 28, 2017

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Map of property located within 1/2 mile upstream and 1/2 mile downstream of WaterOne owned collector well property



1320 Research Park Drive  
 Manhattan, Kansas 66502  
 (785) 564-6700



900 SW Jackson, Room 456  
 Topeka, Kansas 66612  
 (785) 296-3556

Jackie McClaskey, Secretary

Governor Sam Brownback

January 27, 2017

WATER DISTRICT NO 1 OF JOHNSON COUNTY (WATERONE)  
 TOM SCHREMPP PE  
 7601 HOLLIDAY DRIVE  
 KANSAS CITY KS 66106

Re: Proj.: Hansen WTP Horizontal Collector Well No. 1  
 Floodway Fill  
 Kansas River  
 Wyandotte County  
 WSN: LWY-0087, Notice No.: 2016236

Dear Mr. Schrempp:

Consideration has been given to your application for a permit and approval of plans relating to the placement of fill related to the construction of a 16 foot inside diameter caisson and associated roadway, identified as Hansen Water Treatment Plant Horizontal Collector Well No. 1, in and along the floodway of Kansas River at a location in the SE 1/4 of the NE 1/4 of the SE 1/4 of Section 22, Township 11 South, Range 24 East, Wyandotte County, Kansas.

In accordance with the provisions of K.S.A. 24-126, the Chief Engineer has approved the plans and issued the enclosed approval of application, authorizing construction of the proposed project. Please note the approval conditions on the reverse side of the approval document. Condition No. 9 requires the owner to notify this office within 30 days after the project is completed. A Notice and Proof of Completion form is enclosed for this purpose. Other special conditions have been added to limit the removal of timber and vegetation, to prohibit the introduction of toxic or deleterious materials into the watercourse, and to require the project meet the floodplain management requirements of the community.

The one set of plans submitted to this office has been endorsed with the Chief Engineer's approval and will be retained in our files. Should you desire any copies of the plans with the Chief Engineer's approval shown thereon, please submit the required number.

Comments about this proposed project were received from several agencies during the environmental review process. Copies of the letters with recommendations from the environmental review agencies are enclosed for your information.


Water District No. 1 of Johnson County (Waterone)

WSN: LWY-0087, Notice No.: 2016236

Page 2

The work has been authorized to be completed on or before July 1, 2020. Approval for construction of this project will expire on that date unless the time is subsequently specifically extended by the Chief Engineer. Any desired extension of time should be requested in writing approximately 30 days prior to the expiration date.

Sincerely,



Janelle N. Phillips, P.E.  
Water Structures Engineer  
(785) 564-6654

Enclosure

pc: Jim Winger, P.E.- Black & Veatch  
Robin Richardson- City of Kansas City FPA



**KANSAS DEPARTMENT OF AGRICULTURE**  
Jackie McClaskey, Secretary of Agriculture

**DIVISION OF WATER RESOURCES**  
David W. Barfield, Chief Engineer

**APPROVAL OF APPLICATION**

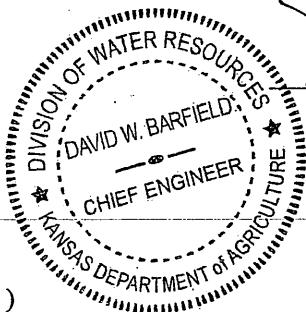
**NO. LWY-0087**

K.S.A. 24-126

The Chief Engineer of the Division of Water Resources, Kansas Department of Agriculture, by virtue of the powers and duties imposed by K.S.A. 24-126, hereby issues this approval to Water District No. 1 of Johnson County (Waterone), giving his consent to the placement of fill related to the construction of a 16 foot inside diameter caisson and associated roadway, identified as Hansen Water Treatment Plant Horizontal Collector Well No. 1, in and along the floodway of Kansas River at a location in the SE 1/4 of the NE 1/4 of the SE 1/4 of Section 22, Township 11 South, Range 24 East, Wyandotte County, Kansas.

All work authorized by this approval shall be performed in accordance with the maps, plans, profiles and specifications filed with the application and approved by the Chief Engineer, and in accordance with plans for any changes or modifications subsequently approved by the Chief Engineer subject to the provisions of the aforementioned statute, its regulations and the attached approval conditions.

Witness my hand this 27<sup>th</sup> day of January, 20 17.



David W. Barfield  
David W. Barfield, P.E.  
Chief Engineer  
Division of Water Resources  
Kansas Department of Agriculture

State of Kansas )  
                          )SS  
County of Riley )

The foregoing instrument was acknowledged before me this 27<sup>th</sup> day of January, 20 17, by David W. Barfield, Chief Engineer, Division of Water Resources, Kansas Department of Agriculture.



Karen Hunter  
Notary Public

**RECORD THIS INSTRUMENT IN THE OFFICE OF THE REGISTER OF DEEDS  
OF THE COUNTY WHEREIN THE WORK IS LOCATED**

**APPROVAL CONDITIONS**

1. This approval grants no water rights nor other property rights, nor does it authorize any injury to private property, invasion of private rights nor impairment of senior water rights, nor does it exempt the applicant from obtaining consent from appropriate federal, state or local government.
2. The work shall at all times be subject to supervision and inspection by representatives of the Division of Water Resources.
3. No changes in the work, maps, plans, profiles and specifications as approved shall be made except with the written consent of the Chief Engineer.
4. Any work authorized by this approval will be maintained in a condition satisfactory to the Chief Engineer and substantially in accordance with the approved plans.
5. The clearing of trees, brush, drift and other debris, in order to maintain the work substantially in accordance with the approved plans is hereby authorized, except that the removal of plantings made specifically for habitat or environmental mitigation is not authorized by this approval.
6. Any excess material deposited in the stream channel incidental to the construction and maintenance of the project authorized by this approval shall be removed and the channel restored to a condition satisfactory to the Chief Engineer and substantially in accordance with the approved plans.
7. All areas disturbed by construction or other exposed soil areas shall be seeded and maintained with a mixture of grass or other vegetation appropriate to the soils, climate and project in order to minimize erosion and protect the project integrity.
8. If the work is not completed on or before the 1st day of July, 2020, this approval, if not specifically extended, shall cease and be null and void. If, upon the expiration or revocation of the approval, the work has not been completed, the applicant shall, at his own expense and to such extent and in such time and manner as the Chief Engineer may require, remove all or any portion of the uncompleted work and restore the watercourse to a satisfactory condition. No claim shall be made against the State of Kansas on account of any such removal or alteration.
9. Within thirty (30) days after the completion of the work authorized in this approval, the applicant shall file with the Division a statement that the work has been performed in accordance with this approval and the approved maps, plans, profiles and specifications.
10. The Chief Engineer reserves the right to require such changes in the maps, plans, profiles and specifications as may be considered necessary. The Chief Engineer further reserves the right to modify, suspend or revoke this approval at any time, should the applicant fail to comply with any of the conditions of this approval or regulations of the Division without sufficient cause or should such action be deemed necessary in the interest of public safety and welfare.
11. That the clearing of timber and vegetation is restricted to the absolute minimum required to accomplish the work and not interfere with the beneficial use of project.
12. No deleterious or toxic materials shall be introduced into the watercourse or reservoir by runoff, leaching or disposal during or in connection with the work authorized by this permit.
13. The project must meet the floodplain management requirements of the community.

**Calderwood, Mike**

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**From:** Kathy Haynes <k.haynes@kcc.ks.gov>  
**Sent:** Wednesday, July 27, 2016 2:06 PM  
**To:** Calderwood, Mike  
**Subject:** RE: ECA# 2016236

A review of Conservation Division files failed to indicate any environmental concerns within the acreage described in this application.

In the event unexpected circumstances are encountered during construction, such as the discovery of abandoned oil, gas or exploratory holes or lead lines, the applicant should contact, Steve Korf at (620) 432-2300, so appropriate regulatory response can be made.

If you have any questions or concerns, please call me at (316) 337-6243.

**Kathy Haynes**  
 Department of Environmental Protection and Remediation



Conservation Division  
 Kansas Corporation Commission  
 266 N. Main Ste 220 | Wichita, KS | 67202-1513  
 Phone (316) 337-6243 | Fax (316) 337-6232 | <http://kcc.ks.gov/>

*This transmission, email and any files transmitted with it, may be: (1) subject to the Attorney-Client Privilege, (2) an attorney work product, or (3) strictly confidential under federal or state law. If you are not the intended recipient of this message, you may not use, disclose, print, copy or disseminate this information. If you have received this transmission in error, notify the sender (only) and delete the message. This message may also be subject to disclosure under the KORA, K.S.A. 2010 Supp. 45-215 et seq.*

---

**From:** Calderwood, Mike [<mailto:Mike.Calderwood@ks.gov>]  
**Sent:** Wednesday, July 27, 2016 1:45 PM  
**To:** Kathy Haynes; KDWP; KSHS; Larry Biles; Paul Liechti; KDA SCC Office Assistant; Scott Satterthwaite  
**Cc:** [tschrempp@waterone.org](mailto:tschrempp@waterone.org); [wingerjg@bv.com](mailto:wingerjg@bv.com); Richardson, Rob; Antonella Cerchi; Schemm, Doug  
**Subject:** ECA# 2016236

The Water Projects Environmental Coordination Act, K.S.A. 82a-325 to 327, requires this agency to provide seven other agencies in the state government an opportunity to review and comment on your application for a period of not less than 30 days. The environmental coordination process has been initiated, but a thorough review of your project may not yet have been performed. You will be informed of any changes that may be necessary to comply with our rules and regulations and any concerns or comments we receive from the environmental coordination agencies.

This letter does not provide any permission to begin the construction of your project. **Construction can begin only after written approval has been obtained from the Chief**  
**SCANNED**

**Engineer of this agency.** If you have any questions or comments please contact this office by writing or calling (785) 564-6649.

**Notice No.:** 2016236

**Date of Notice:** 7/27/2016

**WS No.:** LWY-0087

**Expiration Date:** 8/26/2016

**Project:** Hansen WTP Horizontal Collector Well No. 1

Floodway fill in and along Kansas River at a location in the SE 1/4 of the NE 1/4 of the SE 1/4 of Section 22, Township 11 South, Range 24 East, Wyandotte County, Kansas.

<https://agriculture.ks.gov/eca-user-login>

For new registration:

<https://agriculture.ks.gov/divisions-programs/dwr/stream-and-floodplain-permits/environmental-coordination-notices>

Mike Calderwood, Engineering Associate  
Kansas Department of Agriculture  
Division of Water Resources  
Water Structures Program  
(785) 564-6649

[Mike.Calderwood@ks.gov](mailto:Mike.Calderwood@ks.gov) **My e-mail address has changed**

<http://agriculture.ks.gov/divisions-programs/dwr>

Our applications have changed. Please visit our website to get current applications for new projects at:

<http://agriculture.ks.gov/divisions-programs/dwr/stream-and-floodplain-permits>



**Calderwood, Mike**

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**From:** Stucky, Ryan <ryan.stucky@ksoutdoors.com>  
**Sent:** Friday, July 29, 2016 1:45 PM  
**To:** Calderwood, Mike  
**Subject:** KDWPT Project Review DWR 2016236, Hansen WTP Horizontal Collector Well No. 1; Kansas River, Sec.22-T11S-R24E Wyandotte County, Kansas, (KDWPT 20160856)

Dear Mr. Calderwood,

The referenced project DWR 2016236, Hansen WTP Horizontal Collector Well No. 1, Kansas River, Sec.22-T11S-R24E Wyandotte County, Kansas, was reviewed for potential impacts on crucial wildlife habitats, current State-listed Threatened and Endangered Species and Species in Need of Conservation (SINC), and Kansas Department of Wildlife, Parks and Tourism managed areas for which this agency has administrative authority.

We have no objections to the project, but would like to point out that this area is designated critical habitat for two bird species: Piping Plover (*Charadrius melodus*) Federal Threatened, Least Tern (*Sterna antillarum*) Federal Endangered.

Results of our review indicate there will be no significant impacts to crucial wildlife habitats; therefore, no special mitigation measures are recommended. The project will not impact any public recreational areas, nor could we document any potential impacts to currently-listed Threatened or Endangered species or SINC. No Department of Wildlife, Parks and Tourism permits or special authorizations will be needed if construction is started within one year, and no design changes are made in the project plans.

We provide the following general recommendations as applicable:

- Streambank and streambed should be restored to a functioning stream system.
- Avoid placing riprap below the Ordinary High Water Mark.
- Avoid impacts to existing streams and rivers, adjacent riparian zones, wetlands, and native prairie and woodland areas.
- Minimize all bank or instream activity, particularly during fish spawning season (March 1 – Aug. 31).
- All equipment should be thoroughly inspected and cleaned of mud, plant material, or other debris and cleaned with pressurized hot water or allowed to dry for 5 days prior to contacting any other Waters of the U.S. to prevent transporting invasive species.
- Incorporate principles of low impact development (LID), such as permeable asphalt pavement, porous concrete, swales, bioretention, or raingardens. More info. on LID: <http://www.epa.gov/owow/NPS/lid/>
- Implement and maintain standard erosion-control Best-Management-Practices during all aspects of construction by installing sediment barriers (wattles, filter logs, rock ditch checks, mulching, or any combination of these) across

the entire construction area to prevent sediment and spoil from entering aquatic systems. Barriers should be maintained at high functioning capacity until construction is completed and vegetation is established. For more information go to: <http://www.kdheks.gov/stormwater/#construct>

- Reseed disturbed areas with native warm-season grasses, forbs, and trees.

Since the Department's recreational land obligations and the State's species listings periodically change, if construction has not started within one year of this date, or if design changes are made in the project plans, the project sponsor must contact this office to verify continued applicability of this assessment report. For our purposes, we consider construction started when advertisements for bids are distributed.

Thank you,

Ryan Stucky  
KDWPT, Ecological Services Section  
512 SE 25th Ave.  
Pratt, KS 67124  
Office: (620)672-0792  
Cell: (316)772-8052  
[ryan.stucky@ksoutdoors.com](mailto:ryan.stucky@ksoutdoors.com)

File No 3678

6425 SW 6<sup>th</sup> Avenue  
Topeka, KS 66615



phone: 785-272-8681  
fax: 785-272-8682  
cultural\_resources@kshs.org

Kansas Historical Society

Sam Brownback, Governor  
Jennie Chinn, Executive Director

MEMORANDUM

To: ECA Permit Applicant  
From: Kansas State Historical Society  
Bob Hoard, State Archeologist  
Re: Historic and Prehistoric Cultural Resources

Because of time and budget constraints, the Kansas State Historical Society has elected to waive review of permit applications under the Water Projects Environmental Coordination Act (KSA-82a-325 *et seq.*). However, digging, grading, and other types of construction activities may reveal the presence of buried historic and/or prehistoric archeological sites or artifacts within your project area. If archeological materials are encountered during construction, please contact me at 785-272-8681 ext. 269 or by email at [rhoard@kshs.org](mailto:rhoard@kshs.org) and do not further disturb the site. If the materials appear to be significant, we may ask for the opportunity to document or salvage the.

In the event human burials or remains are encountered, the Kansas Unmarked Burial Sites Preservation Act (KSA 75-2741 through 75-2754) requires the finder to immediately report these discoveries to the local law enforcement agency. If the remains are not the result of criminal activity, their fate will be determined by the Unmarked Burial Sites Preservation Board. Encountering an unmarked burial does not necessarily stop a project. Discussion with the Board may lead to modification of the project, and in some cases the burial is removed and the project allowed to proceed. Human burials and associated artifacts must not be further disturbed after their discovery, until law enforcement officials or the Unmarked Burial Sites Preservation Board has determined the appropriate action. The Unmarked Burial Sites Preservation Act provides substantial penalties for intentionally disturbing human burials and grave goods, whether located on public or private property. If you find a bone that you suspect may be human, leave it where it is and get expert help to identify it. The county coroner, a medical doctor, or an archeologist can help.

**What to Look For**

Archeological sites from the historic and prehistoric periods may be buried. Prehistoric sites can be recognized by the presence of discolored earth, bones, stone tools (arrow heads, knives, scrapers), stone flakes (thin, sharp edged pieces of stone produced when making chipped stone tools), burned stones, and pieces of coarse, unglazed pottery. Stone flakes are the most commonly found artifact.

Historic period sites can be recognized by the presence of stone, brick, or concrete foundation walls, or concentrations of these materials. Many of the items used in historic times are similar to those used today. Bottles, cups, tin cans, buckets, hand tools, glass fragments, and other items can be easily recognized. If you are unsure of the significance of what you have found, contact my office.

Thank you for assisting in preserving the archeological heritage of Kansas.

\*\*\*\*\*

These actions do not constitute compliance with Section 106 of the National Historic Preservation Act. If this project receives federal funding, licensing, permitting or assistance you must contact the State Historic Preservation Office (785-272-8681 ext. 240) prior to construction for a review of the undertaking under federal law.

SCANNED



## **Kansas Forest Service Policy for Environmental Coordination Act Permits**

Under the Water Projects Environmental Coordination Act, the Kansas Forest Service (KFS) is responsible for reviewing permit applications from the Kansas Department of Agriculture, Division of Water Resources to determine if projects adversely affect critical forest resources.

Due to the large volume of permits we are unable to review them all. For this reason we request the Division of Water Resources to share this document with all people applying for ECA

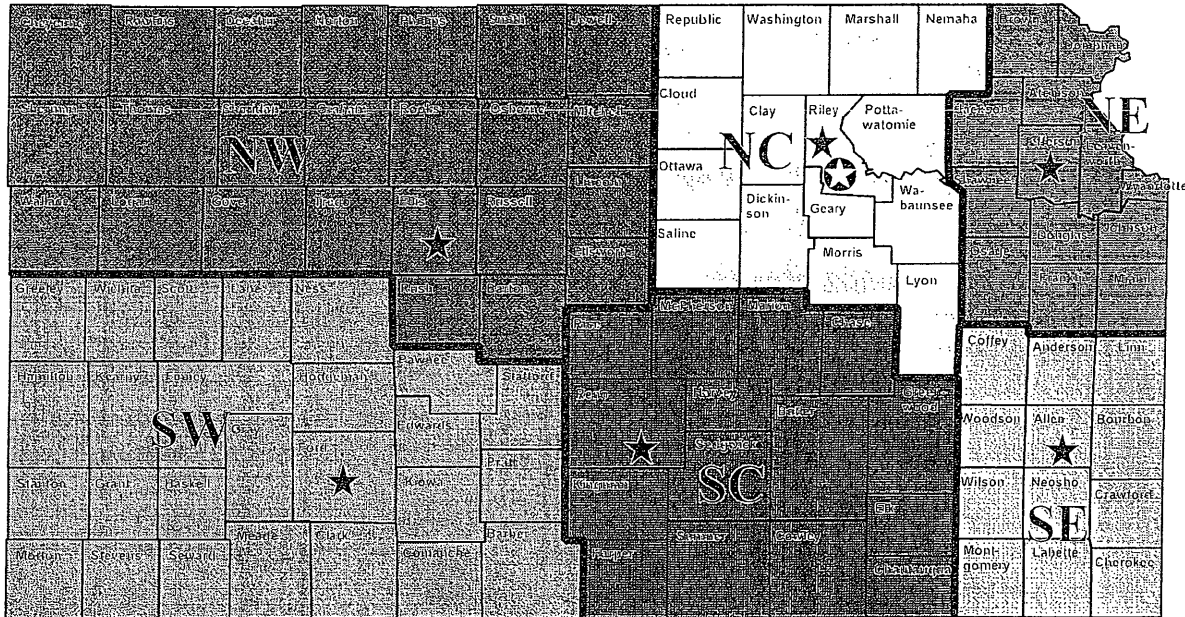
There is 2.2 million acres of forestland in Kansas and a significant percent is riparian forest that borders streams and rivers providing important water quality, soil conservation, wildlife habitat, recreational and wood product benefits to the people of Kansas.

Each year we lose a million acres of forestland to development in the United States (Ralph Alig, USDA FS Pacific NW Research Station). This generally occurs in small patches which often seem insignificant, but collectively degrades our quality of life.

**If your project contributes to the conversion of forestland to another land use that exceeds an acre in size, the Kansas Forest Service requests that you consider mitigating the damage by planting at least 435 native trees per acre on a site of similar ecological value.**

Kansas Forest Service foresters are available to assist with preparing tree planting plans at no charge and can also advise on financial incentives programs to help cover project expenses. Foresters contact information may be found on the back of this sheet. You are also invited to check out the KFS web site ([www.kansasforests.org](http://www.kansasforests.org)) for additional information.

# Kansas Forest Service State and District Offices



★NW  
James H. Strine  
District Forester  
Kansas Forest Service  
1232 240th Avenue  
Hays, KS 67601-9228  
785-625-3425, Ext. 220  
Fax: 785-623-4369  
Email: [jstrine@ksu.edu](mailto:jstrine@ksu.edu)

★ NC  
Thad K. Rhodes  
District Forester  
Kansas Forest Service  
3705 Miller Parkway  
Manhattan, KS 66503  
785-776-5182  
Fax: 785-539-7983  
Email: [Trhodes@ksu.edu](mailto:Trhodes@ksu.edu)

★ SE  
Vacant  
District Forester  
Kansas Forest Service  
202 West Miller RD  
Iola, KS 66749  
620-365-2901 Ext 123  
Fax: 620-365-2901  
Email: [Crobinso@ksu.edu](mailto:Crobinso@ksu.edu)

★ SW  
John Klempa  
District Forester  
Kansas Forest Service  
2106 E Spruce ST  
Garden City, KS 67846-6362  
620-275-0211  
Fax: 620-275-4903  
Email: [jdklempa@ksu.edu](mailto:jdklempa@ksu.edu)

★ SC  
Dennis W. Carlson  
District Forester  
Kansas Forest Service  
9 West 28th, Suite B  
Hutchinson, KS 67502-3453  
620-663-3501  
Fax: 620-663-3866  
Email: [Dcarlson@ksu.edu](mailto:Dcarlson@ksu.edu)

★ NE  
David L. Bruton  
District Forester  
Kansas Forest Service  
318 Broadway  
Valley Falls, KS 66088-1302  
785-945-6292  
Fax: 785-945-6882  
Email: [Dbruton@ksu.edu](mailto:Dbruton@ksu.edu)

★ State Office  
Bob Atchison  
Rural Forestry Coordinator  
2610 Claflin RD  
Manhattan, KS 66502-2798  
785-532-3310  
Fax: 785-532-3310  
Email: [Atchison@ksu.edu](mailto:Atchison@ksu.edu)

**CD COPY IN TOPEKA FIELD OFFICE  
FILE 3677/3678 FOR**

**(Draft\_Kansas\_River\_Wellfield\_Evaluation\_20120221)**

**(Kansas River Wellfield Geotechnical Investigations and  
Hydrogeologic Study\_ June 2015)**

*Please*

*Scan*

## Krueger, Richelle

---

**From:** Tietsort, Katie  
**Sent:** Monday, October 16, 2017 4:22 PM  
**To:** Krueger, Richelle  
**Cc:** Bunger, Brett; Pugh, Ginger; Turney, Brent; Schemm, Doug  
**Subject:** RE: Request for Recommendation Change in PD File Nos. 3677 and 3678 WaterOne

Good Afternoon Richelle,

It appears that everything is in order to proceed forward with approval of the referenced changes. They do appear to meet all applicable rules and regulations of the KWAA and from review of the modeling, I agree that impairment to any existing water rights as a result of approval of these applications is unlikely. I appreciate that we have obtained the modeling report and supporting information as a CD Disk as an attachment to this file. The split appears to be appropriate and we can determine the water use appropriately based on a meter that will be installed at the new Erman collector well, proposed herein.

Thanks for all your hard work on this,  
Katie

Katie Tietsort

Kansas Department of Agriculture  
6531 SE Forbes Ave Ste B  
Topeka, KS 66619  
[katie.tietsort@ks.gov](mailto:katie.tietsort@ks.gov)  
Phone 785-296-5733

---

**From:** Krueger, Richelle  
**Sent:** Wednesday, October 11, 2017 4:39 PM  
**To:** Tietsort, Katie <Katie.Tietsort@ks.gov>  
**Cc:** Bunger, Brett <Brett.Bunger@ks.gov>; Pugh, Ginger <Ginger.Pugh@ks.gov>; Turney, Brent <Brent.Turney@ks.gov>; Schemm, Doug <Doug.Schemm@ks.gov>  
**Subject:** Request for Recommendation Change in PD File Nos. 3677 and 3678 WaterOne

Hi Katie,

Attached is a draft memo for the referenced pd changes, do you recommend approval?

Thanks,  
Richelle

SCANNED

## Krueger, Richelle

---

**From:** Tietsort, Katie  
**Sent:** Wednesday, October 11, 2017 1:50 PM  
**To:** Krueger, Richelle  
**Subject:** FW: WaterOne Collector Wells

Please see below.

Katie Tietsort

Kansas Department of Agriculture  
6531 SE Forbes Ave Ste B  
Topeka, KS 66619  
[katie.tietsort@ks.gov](mailto:katie.tietsort@ks.gov)  
Phone 785-296-5733

---

**From:** Pugh, Ginger  
**Sent:** Wednesday, October 11, 2017 1:49 PM  
**To:** Krueger, Richelle <[Richelle.Krueger@ks.gov](mailto:Richelle.Krueger@ks.gov)>  
**Cc:** Tietsort, Katie <[Katie.Tietsort@ks.gov](mailto:Katie.Tietsort@ks.gov)>  
**Subject:** RE: WaterOne Collector Wells

Hi Richelle,

I have reviewed the modeling summary report (*Groundwater Flow Evaluation for Proposed Change of the Point of Diversion to a New Horizontal Collector Well, July, 2017*) and model support document (*Kansas River Wellfield Evaluation, Feb, 2012*) provided by WaterOne in regards to the change applications for collector wells under water rights 3677 and 3678. The results look like they cover all of the necessary investigations related to model runs, the split between groundwater and surface water contributions, and drawdown that we require and the support document provides information about the construction of the MODFLOW model -along with some of the original modeling scenarios they ran with it for previous investigations.

Ginger

---

**From:** Pugh, Ginger  
**Sent:** Monday, October 09, 2017 12:36 PM  
**To:** Tietsort, Katie <[Katie.Tietsort@ks.gov](mailto:Katie.Tietsort@ks.gov)>  
**Subject:** WaterOne Collector Wells

Saved WaterOne's model report (Draft\_Kansas\_River\_Wellfield\_Evaluation... from 2012) and the Wellfield geotechnical investigations study (2015) here:

[\\ag-dwr\files\WA\\_NewApps\Processing\3677\\_CollectorWell](\\ag-dwr\files\WA_NewApps\Processing\3677_CollectorWell)

Let me know if you have trouble accessing this location.

In terms of model support information, I'm set.

Thanks,  
Ginger E. Pugh, Engineering Associate

SCANNED



Kansas Department of Agriculture  
Division of Water Resources  
(785) 564-6677  
[Ginger.Pugh@ks.gov](mailto:Ginger.Pugh@ks.gov)  
[www.agriculture.ks.gov/dwr](http://www.agriculture.ks.gov/dwr)

## Krueger, Richelle

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**From:** Tietsort, Katie  
**Sent:** Wednesday, September 20, 2017 8:18 AM  
**To:** Krueger, Richelle  
**Subject:** FW: Water One application for change under 3677 & 3678

So we are all set now as far as getting the KWO sign off.

Katie Tietsort

Kansas Department of Agriculture  
6531 SE Forbes Ave Ste B  
Topeka, KS 66619  
[katie.tietsort@ks.gov](mailto:katie.tietsort@ks.gov)  
Phone 785-296-5733

---

**From:** Cara Hendricks [mailto:Cara.Hendricks@kwo.ks.gov]  
**Sent:** Wednesday, September 20, 2017 8:00 AM  
**To:** Tietsort, Katie <Katie.Tietsort@ks.gov>  
**Cc:** Krueger, Richelle <Richelle.Krueger@ks.gov>; Westrup, Nathan <Nathan.Westrup@kwo.ks.gov>  
**Subject:** Water One application for change under 3677 & 3678

Good morning, Katie:

I had previously corresponded with Doug Schemm on the Water One application for the change under 3677 & 3678, but apologize for not providing a formal response at that time.

Doug confirmed during my follow up with him on 7/26/17 that the referenced application was for a proposed collector well, and that no change is proposed to the authorized quantity of the existing water rights associated with these two files. The application would change only the point of diversion with the new well, but would not authorize additional quantity under the existing surface water right. As a result, we do not have any objections or issues with this change.

Thank you,

**Cara Hendricks, P.E.**  
Kansas Water Office  
(785) 296-0617



@kswateroffice

---

**From:** Tietsort, Katie [mailto:Katie.Tietsort@ks.gov]  
**Sent:** Monday, September 18, 2017 3:51 PM  
**To:** Cara Hendricks  
**Cc:** Krueger, Richelle  
**Subject:** Water One application for change under 3677 & 3678

Hi Cara,

SCANNED

Trying to tie up some loose ends here. Were you going to provide some email or letter (or other) related to the proposed change under File Nos. 3677 & 3678 for the collector well for Water One request? It has pending quite a while now and we are just trying to get it going again. Did we already get something from you? Do you need something more from us?  
Katie

Katie Tietsort

Kansas Department of Agriculture  
6531 SE Forbes Ave Ste B  
Topeka, KS 66619  
[katie.tietsort@ks.gov](mailto:katie.tietsort@ks.gov)  
Phone 785-296-5733

## Krueger, Richelle

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**From:** Tietsort, Katie  
**Sent:** Wednesday, August 2, 2017 1:01 PM  
**To:** Pugh, Ginger; Krueger, Richelle  
**Subject:** RE: KS Collector Well change applications

1) Great question. What are your expectations as the reviewer? AT least from my application of the KWAA to this request, the impact to the existing well field owned by WaterOne is not of our concern because all the well field and this well will operate under the same file number and priority. The impact is the concern of WaterOne as to whether or not that impact is less than desirable or tolerable. As to the impacts on other wells, I don't really see that the results, if we accept this model run, would change our ultimate determination. If that is the case, I think it would be acceptable.

2) I don't have anything besides what you have regarding the model. I don't think Richelle has any additional info, though she does have a CD disk they provided that may contain something. I have not viewed the disk.

Have you looked at what we accepted for their previous Collector well request? I suspect that this model would be the same build as that one.

Katie Tietsort

Kansas Department of Agriculture  
6531 SE Forbes Ave Ste B  
Topeka, KS 66619  
[katie.tietsort@ks.gov](mailto:katie.tietsort@ks.gov)  
Phone 785-296-5733

---

**From:** Pugh, Ginger  
**Sent:** Monday, July 31, 2017 2:38 PM  
**To:** Tietsort, Katie <Katie.Tietsort@ks.gov>; Krueger, Richelle <Richelle.Krueger@ks.gov>  
**Subject:** RE: KS Collector Well change applications

The modeling results Sandy provided on the 14<sup>th</sup> seem to cover what we require for collector well modeling, provided the graphics are detailed enough to see the required information:

1. Noticed that the drawdowns at existing WaterOne wells are hard to see due to the points of the wells covering the contours -that said, the impact of the district's changes on its own wells are probably less than worrisome.
2. Are the 1 ft contours sufficient for determining impacts on nearby wells? The well with any recent use is in the -0.5 ft impact range, I do not know what kind of precision we need or what we call too much impact, is the graphic sufficient or would a lookup table be preferred?

I could not find where information on the model that was used to get these results was provided, besides that it is a MODFLOW model from the 1990s revised in 2012 by B&V and used for to create these results. If we are already familiar with the model and have previously accepted it, disregard this comment, I just haven't seen it so cannot make any statements as to its usage. Know if the model reviewed earlier in the process or for a previous application?

Thanks,  
Ginger E. Pugh, Engineering Associate  
Kansas Department of Agriculture

SCANNED

Division of Water Resources  
(785) 564-6677  
[Ginger.Pugh@ks.gov](mailto:Ginger.Pugh@ks.gov)  
[www.agriculture.ks.gov/dwr](http://www.agriculture.ks.gov/dwr)

---

**From:** Krueger, Richelle  
**Sent:** Monday, July 31, 2017 10:00 AM  
**To:** Pugh, Ginger <[Ginger.Pugh@ks.gov](mailto:Ginger.Pugh@ks.gov)>  
**Subject:** FW: KS Collector Well change applications

---

**From:** Sandy G. Paterson [<mailto:spaterson@waterone.org>]  
**Sent:** Friday, July 14, 2017 9:33 AM  
**To:** Krueger, Richelle <[Richelle.Krueger@ks.gov](mailto:Richelle.Krueger@ks.gov)>  
**Cc:** Hanley G. Barker <[hbarker@waterone.org](mailto:hbarker@waterone.org)>; Paul D. Corkill <[pcorkill@waterone.org](mailto:pcorkill@waterone.org)>; Michelle Wirth <[mwirth@waterone.org](mailto:mwirth@waterone.org)>; Tietsort, Katie <[Katie.Tietsort@ks.gov](mailto:Katie.Tietsort@ks.gov)>  
**Subject:** RE: KS Collector Well change applications

Richelle,

Attached is the modeling information that you requested.

---

**From:** Paul D. Corkill  
**Sent:** Friday, June 30, 2017 3:49 PM  
**To:** Tietsort, Katie  
**Cc:** Krueger, Richelle; Hanley G. Barker; Michelle Wirth; Winger, James G. (Jim); Sandy G. Paterson  
**Subject:** RE: KS Collector Well change applications

Sure will.

Thanks again,

Paul D Corkill PE  
Water Planning & Asset Management  
WaterOne  
7601 Holliday Drive  
Kansas City Kansas, 66106

[pcorkill@waterone.org](mailto:pcorkill@waterone.org)  
913-895-5813 office  
913-638-5494 cell

---

**From:** Tietsort, Katie [<mailto:Katie.Tietsort@ks.gov>]  
**Sent:** Friday, June 30, 2017 1:05 PM  
**To:** Paul D. Corkill  
**Cc:** Krueger, Richelle; Hanley G. Barker; Michelle Wirth; Winger, James G. (Jim); Sandy G. Paterson  
**Subject:** RE: KS Collector Well change applications

Great Paul.

Can you make sure that the information is sent to Richelle Krueger in the Manhattan office since she is working the applications, please?

Thanks, Katie

Katie Tietsort

Kansas Department of Agriculture  
6531 SE Forbes Ave Ste B  
Topeka, KS 66619  
[katie.tietsort@ks.gov](mailto:katie.tietsort@ks.gov)  
Phone 785-296-5733

---

**From:** Paul D. Corkill [<mailto:pcorkill@waterone.org>]  
**Sent:** Friday, June 30, 2017 12:50 PM  
**To:** Tietsort, Katie <[Katie.Tietsort@ks.gov](mailto:Katie.Tietsort@ks.gov)>  
**Cc:** Krueger, Richelle <[Richelle.Krueger@ks.gov](mailto:Richelle.Krueger@ks.gov)>; Hanley G. Barker <[hbarker@waterone.org](mailto:hbarker@waterone.org)>; Michelle Wirth <[mwirth@waterone.org](mailto:mwirth@waterone.org)>; Winger, James G. (Jim) <[WingerJG@bv.com](mailto:WingerJG@bv.com)>; Sandy G. Paterson <[spaterson@waterone.org](mailto:spaterson@waterone.org)>  
**Subject:** RE: KS Collector Well change applications

Katie,

I checked with B&V this morning and requested information about the additional data that you need. There are a couple of model runs that they want to touch up. They will be doing that for us and it sounds like I should be able to get all of that additional data to you by end of week next week.

Thank you for calling.

Paul D Corkill PE  
Water Planning & Asset Management  
WaterOne  
7601 Holliday Drive  
Kansas City Kansas, 66106

[pcorkill@waterone.org](mailto:pcorkill@waterone.org)  
913-895-5813 office  
913-638-5494 cell

---

**From:** Tietsort, Katie [<mailto:Katie.Tietsort@ks.gov>]  
**Sent:** Friday, June 30, 2017 10:25 AM  
**To:** Paul D. Corkill  
**Cc:** Krueger, Richelle  
**Subject:** Collector Well change applications

Hi Paul,

As we discussed this morning, the applications came with a CD disk that contains report information and unless it was missed in there, we aren't finding where the specific requirements mentioned in the attached modeling requirements for collector wells sheets are contained. We didn't find impacts mapping of the stream and local wells, including the drawdowns, the interaction, and the other required modeling results. Can you point us to that or provide this information so that work on processing these change applications can continue?

Thanks, Katie

SCANNED

Katie Tietsort

Kansas Department of Agriculture

6531 SE Forbes Ave Ste B

Topeka, KS 66619

[katie.tietsort@ks.gov](mailto:katie.tietsort@ks.gov)

Phone 785-296-5733

## Krueger, Richelle

---

**From:** Pugh, Ginger  
**Sent:** Monday, July 31, 2017 2:38 PM  
**To:** Tietsort, Katie; Krueger, Richelle  
**Subject:** RE: KS Collector Well change applications

The modeling results Sandy provided on the 14<sup>th</sup> seem to cover what we require for collector well modeling, provided the graphics are detailed enough to see the required information:

1. Noticed that the drawdowns at existing WaterOne wells are hard to see due to the points of the wells covering the contours -that said, the impact of the district's changes on its own wells are probably less than worrisome.
2. Are the 1 ft contours sufficient for determining impacts on nearby wells? The well with any recent use is in the -0.5 ft impact range, I do not know what kind of precision we need or what we call too much impact, is the graphic sufficient or would a lookup table be preferred?

I could not find where information on the model that was used to get these results was provided, besides that it is a MODFLOW model from the 1990s revised in 2012 by B&V and used for to create these results. If we are already familiar with the model and have previously accepted it, disregard this comment, I just haven't seen it so cannot make any statements as to its usage. Know if the model reviewed earlier in the process or for a previous application?

Thanks,  
Ginger E. Pugh, Engineering Associate  
Kansas Department of Agriculture  
Division of Water Resources  
(785) 564-6677  
[Ginger.Pugh@ks.gov](mailto:Ginger.Pugh@ks.gov)  
[www.agriculture.ks.gov/dwr](http://www.agriculture.ks.gov/dwr)

---

**From:** Krueger, Richelle  
**Sent:** Monday, July 31, 2017 10:00 AM  
**To:** Pugh, Ginger <[Ginger.Pugh@ks.gov](mailto:Ginger.Pugh@ks.gov)>  
**Subject:** FW: KS Collector Well change applications

---

**From:** Sandy G. Paterson [<mailto:spaterson@waterone.org>]  
**Sent:** Friday, July 14, 2017 9:33 AM  
**To:** Krueger, Richelle <[Richelle.Krueger@ks.gov](mailto:Richelle.Krueger@ks.gov)>  
**Cc:** Hanley G. Barker <[hbarker@waterone.org](mailto:hbarker@waterone.org)>; Paul D. Corkill <[pcorkill@waterone.org](mailto:pcorkill@waterone.org)>; Michelle Wirth <[mwirth@waterone.org](mailto:mwirth@waterone.org)>; Tietsort, Katie <[Katie.Tietsort@ks.gov](mailto:Katie.Tietsort@ks.gov)>  
**Subject:** RE: KS Collector Well change applications

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**Sent:** Friday, June 30, 2017 3:49 PM  
**To:** Tietsort, Katie

SCANNED



**Cc:** Krueger, Richelle; Hanley G. Barker; Michelle Wirth; Winger, James G. (Jim); Sandy G. Paterson  
**Subject:** RE: KS Collector Well change applications

Sure will.

Thanks again,

Paul D Corkill PE  
Water Planning & Asset Management  
WaterOne  
7601 Holliday Drive  
Kansas City Kansas, 66106

[pcorkill@waterone.org](mailto:pcorkill@waterone.org)  
913-895-5813 office  
913-638-5494 cell

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**Cc:** Krueger, Richelle; Hanley G. Barker; Michelle Wirth; Winger, James G. (Jim); Sandy G. Paterson  
**Subject:** RE: KS Collector Well change applications

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Can you make sure that the information is sent to Richelle Krueger in the Manhattan office since she is working the applications, please?

Thanks, Katie

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**To:** Tietsort, Katie <[Katie.Tietsort@ks.gov](mailto:Katie.Tietsort@ks.gov)>  
**Cc:** Krueger, Richelle <[Richelle.Krueger@ks.gov](mailto:Richelle.Krueger@ks.gov)>; Hanley G. Barker <[hbarker@waterone.org](mailto:hbarker@waterone.org)>; Michelle Wirth <[mwirth@waterone.org](mailto:mwirth@waterone.org)>; Winger, James G. (Jim) <[WingerJG@bv.com](mailto:WingerJG@bv.com)>; Sandy G. Paterson <[spaterson@waterone.org](mailto:spaterson@waterone.org)>  
**Subject:** RE: KS Collector Well change applications

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[katie.tietsort@ks.gov](mailto:katie.tietsort@ks.gov)  
Phone 785-296-5733

SCANNED

## Krueger, Richelle

---

**From:** Krueger, Richelle  
**Sent:** Tuesday, July 25, 2017 1:36 PM  
**To:** Tietsort, Katie  
**Cc:** Pugh, Ginger  
**Subject:** FW: KS Collector Well change applications  
**Attachments:** FW: Water Right Application Info for Kansas Collector Well MP-10008

Katie,

This is the information forwarded to me, I had it scanned in docuware, I was not aware that Ginger was going to look at this....but this is what I have received so far. I have notified nearbys and have had one phone call, no objections yet.....

Richelle

---

**From:** Sandy G. Paterson [mailto:spaterson@waterone.org]  
**Sent:** Friday, July 14, 2017 9:33 AM  
**To:** Krueger, Richelle <Richelle.Krueger@ks.gov>  
**Cc:** Hanley G. Barker <hbarker@waterone.org>; Paul D. Corkill <pcorkill@waterone.org>; Michelle Wirth <mwirth@waterone.org>; Tietsort, Katie <Katie.Tietsort@ks.gov>  
**Subject:** RE: KS Collector Well change applications

Richelle,

Attached is the modeling information that you requested.

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**From:** Paul D. Corkill  
**Sent:** Friday, June 30, 2017 3:49 PM  
**To:** Tietsort, Katie  
**Cc:** Krueger, Richelle; Hanley G. Barker; Michelle Wirth; Winger, James G. (Jim); Sandy G. Paterson  
**Subject:** RE: KS Collector Well change applications

Sure will.

Thanks again,

Paul D Corkill PE  
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WaterOne  
7601 Holliday Drive  
Kansas City Kansas, 66106

[pcorkill@waterone.org](mailto:pcorkill@waterone.org)  
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**From:** Tietsort, Katie [mailto:Katie.Tietsort@ks.gov]  
**Sent:** Friday, June 30, 2017 1:05 PM  
**To:** Paul D. Corkill

SCANNED

**Cc:** Krueger, Richelle; Hanley G. Barker; Michelle Wirth; Winger, James G. (Jim); Sandy G. Paterson  
**Subject:** RE: KS Collector Well change applications

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Can you make sure that the information is sent to Richelle Krueger in the Manhattan office since she is working the applications, please?

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**From:** Paul D. Corkill [<mailto:pcorkill@waterone.org>]  
**Sent:** Friday, June 30, 2017 12:50 PM  
**To:** Tietsort, Katie <[Katie.Tietsort@ks.gov](mailto:Katie.Tietsort@ks.gov)>  
**Cc:** Krueger, Richelle <[Richelle.Krueger@ks.gov](mailto:Richelle.Krueger@ks.gov)>; Hanley G. Barker <[hbarker@waterone.org](mailto:hbarker@waterone.org)>; Michelle Wirth <[mwirth@waterone.org](mailto:mwirth@waterone.org)>; Winger, James G. (Jim) <[WingerJG@bv.com](mailto:WingerJG@bv.com)>; Sandy G. Paterson <[spaterson@waterone.org](mailto:spaterson@waterone.org)>  
**Subject:** RE: KS Collector Well change applications

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Thank you for calling.

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**Cc:** Krueger, Richelle  
**Subject:** Collector Well change applications

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Thanks, Katie

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Phone 785-296-5733

## Krueger, Richelle

---

**From:** Tietsort, Katie  
**Sent:** Tuesday, July 25, 2017 12:50 PM  
**To:** Krueger, Richelle  
**Cc:** Pugh, Ginger  
**Subject:** FW: KS Collector Well change applications  
**Attachments:** Collector Well change applications

Do you have the info all submitted and have everything we need? My understanding is that Ginger will review that to ensure it meets the collector well modeling requirements now that Jim is gone.

Katie Tietsort

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6531 SE Forbes Ave Ste B  
Topeka, KS 66619  
[katie.tietsort@ks.gov](mailto:katie.tietsort@ks.gov)  
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---

**From:** Paul D. Corkill [<mailto:pcorkill@waterone.org>]  
**Sent:** Monday, July 10, 2017 4:43 PM  
**To:** Tietsort, Katie <[Katie.Tietsort@ks.gov](mailto:Katie.Tietsort@ks.gov)>  
**Cc:** Krueger, Richelle <[Richelle.Krueger@ks.gov](mailto:Richelle.Krueger@ks.gov)>; Hanley G. Barker <[hbarker@waterone.org](mailto:hbarker@waterone.org)>; Michelle Wirth <[mwirth@waterone.org](mailto:mwirth@waterone.org)>; Winger, James G. (Jim) <[WingerJG@bv.com](mailto:WingerJG@bv.com)>; Sandy G. Paterson <[spaterson@waterone.org](mailto:spaterson@waterone.org)>; Stephanie McAvoy <[smcavoy@waterone.org](mailto:smcavoy@waterone.org)>  
**Subject:** RE: KS Collector Well change applications

Katie,  
I checked in with B&V today and they are needing a few more days to complete the requested modeling data.

Thank you,

Paul D Corkill PE  
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**Sent:** Friday, June 30, 2017 1:05 PM  
**To:** Paul D. Corkill  
**Cc:** Krueger, Richelle; Hanley G. Barker; Michelle Wirth; Winger, James G. (Jim); Sandy G. Paterson  
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**Cc:** Krueger, Richelle

**Subject:** Collector Well change applications

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  - o Amount of drawdown impact expected (Note that if modeling work is being completed to also show impacts to nearby wells from the operation of the collector well, the modeling needs to show the impacts at each well)

SCANNED



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Phone 785-296-5733

## Krueger, Richelle

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**From:** Sandy G. Paterson <spaterson@waterone.org>  
**Sent:** Friday, July 14, 2017 9:33 AM  
**To:** Krueger, Richelle  
**Cc:** Hanley G. Barker; Paul D. Corkill; Michelle Wirth; Tietsort, Katie  
**Subject:** RE: KS Collector Well change applications  
**Attachments:** FW: Water Right Application Info for Kansas Collector Well MP-10008

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**Subject:** RE: KS Collector Well change applications

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**Krueger, Richelle**

---

**From:** Hahn, Kristopher (Kris) <HahnK@bv.com>  
**Sent:** Thursday, July 13, 2017 1:45 PM  
**To:** Paul D. Corkill; Sandy G. Paterson; Hanley G. Barker  
**Cc:** Winger, James G. (Jim)  
**Subject:** FW: Water Right Application Info for Kansas Collector Well MP-10008  
**Attachments:** 20170630094335770.pdf; collector well - modeling to support change of point of diversion application july 13 2017.pdf

Sandy and Hanley,  
Paul said he would be out of the office today and asked that I copy you on this. DWR requested a number of model simulations and maps to support the application for changing the points of diversion to the new horizontal collector well at the east end of the Kansas River Wellfield. I believe I've captured everything on their list in the attached file. I modified the analyses we performed in the past to align with what was described in your application (such as removing Well 18 from service, pumping the collector well at the requested rates, and leaving the other 20 vertical well points of diversion in the current locations). This resulted in a slight change in the percentages of surface water and groundwater produced by the collector well to 87% and 13%, respectively, as opposed to the 90% and 10% that was previously obtained when looking at other wellfield build-out conditions. This results in a slight change in the following numbers in the application:

- For Water Right No. 3678: the surface water quantity of 4972 AF/yr changes to 4805.88 AF/yr. It appears there are two locations where this number are located in the application (PDF pages 9 and 10)
- For Water Right No. 3677: the groundwater quantity of 552 AF/yr changes to 718.12 AF/yr. It appears there are two locations where this number are located in the application (PDF pages 15 and 20)
- I left the total quantity for the collector well (total of surface water and groundwater=5524 AF/yr) and the maximum rate (5.5 MGD) the same as you had in the application.

If you have any questions or need anything else, please let me know.  
Sincerely,  
Kris

**Kristopher Hahn, P.E. | Water Resources**  
Black & Veatch Corporation  
913-458-3213  
Building a World of Difference.®

WATER RESOURCES  
RECEIVED  
JUL 17 2017  
KS DEPT OF AGRICULTURE

**From:** Tietsort, Katie [<mailto:Katie.Tietsort@ks.gov>]  
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Topeka, KS 66619  
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Phone 785-296-5733

---

**From:** Paul D. Corkill [<mailto:pcorkill@waterone.org>]  
**Sent:** Wednesday, July 05, 2017 4:48 PM  
**To:** Henson, Jeffrey (Jeff)  
**Cc:** Hanley G. Barker; Stephanie McAvoy  
**Subject:** Water Right Application Info for Kansas Collector Well MP-10008

Jeff attached is the Application form that we sent to KDHE. Let me know if you need anything more.

Thank you,

Paul D Corkill PE  
Water Planning & Asset Management  
WaterOne  
7601 Holliday Drive  
Kansas City Kansas, 66106

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WATER RESOURCES  
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  - o Amount of drawdown impact expected (Note that if modeling work is being completed to also show impacts to nearby wells from the operation of the collector well, the modeling needs to show the impacts at each well).

WATER RESOURCES  
RECEIVED

JUL 17 2017

KS DEPT OF AGRICULTURE

SCANNED

1320 Research Park Drive  
Manhattan, Kansas 66502  
(785) 564-6700



900 SW Jackson, Room 456  
Topeka, Kansas 66612  
(785) 296-3556

Jackie McClaskey, Secretary

Governor Sam Brownback

**FILE COPY**

July 12, 2017

MORRIS LAND DEVELOPMENT LLC  
PO BOX 14906  
LENEXA KS 66215

RE: Water Right  
File Nos. 3,677 and 3,678

Dear Sir or Madam:


This is to advise you that Water District No. 1 of Johnson County has filed applications for approval of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, to change the point of diversion under the above referenced file numbers. The referenced applications propose to add a collector well as an authorized point of diversion at the following location:

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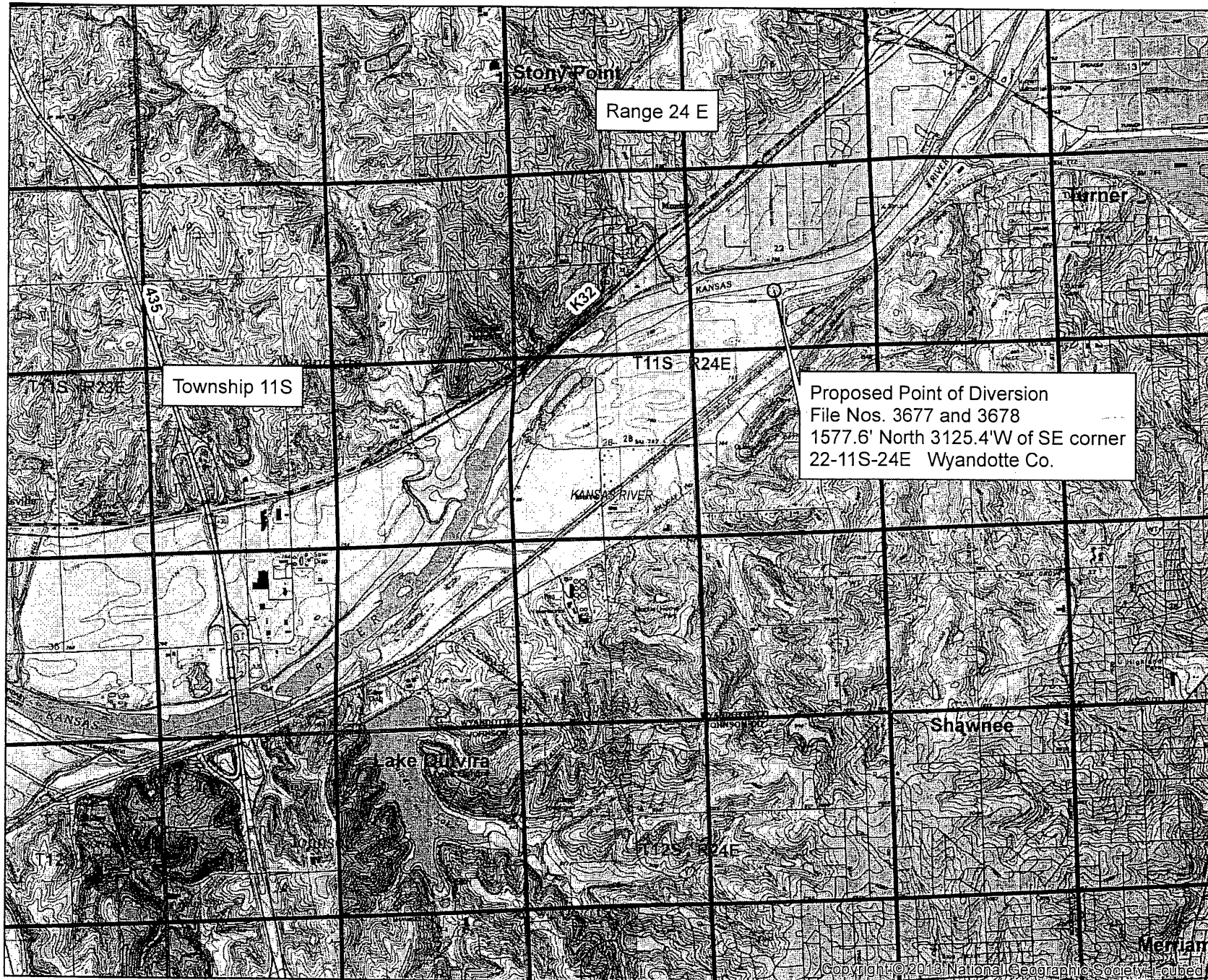
Sincerely,

  
Richelle A. Krueger  
Environmental Scientist  
Water Appropriation Program

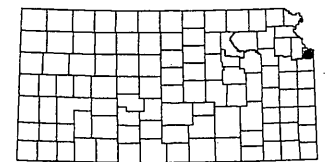
RAK  
pc: Topeka Field Office  
Water District No. 1 Johnson Co.

SCANNED

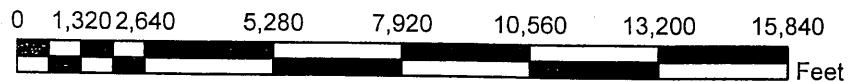
# Applications to Change the PD File Nos. 3677 and 3678



Index Map



1:48,000



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1320 Research Park Drive  
Manhattan, Kansas 66502  
(785) 564-6700



900 SW Jackson, Room 456  
Topeka, Kansas 66612  
(785) 296-3556

Jackie McClaskey, Secretary

Governor Sam Brownback

July 12, 2017

ERMAN CORP INC  
21 N SKOKIE HWY #101  
LAKE BLUFF IL 60044

RE: Water Right  
File Nos. 3,677 and 3,678

Dear Sir or Madam:


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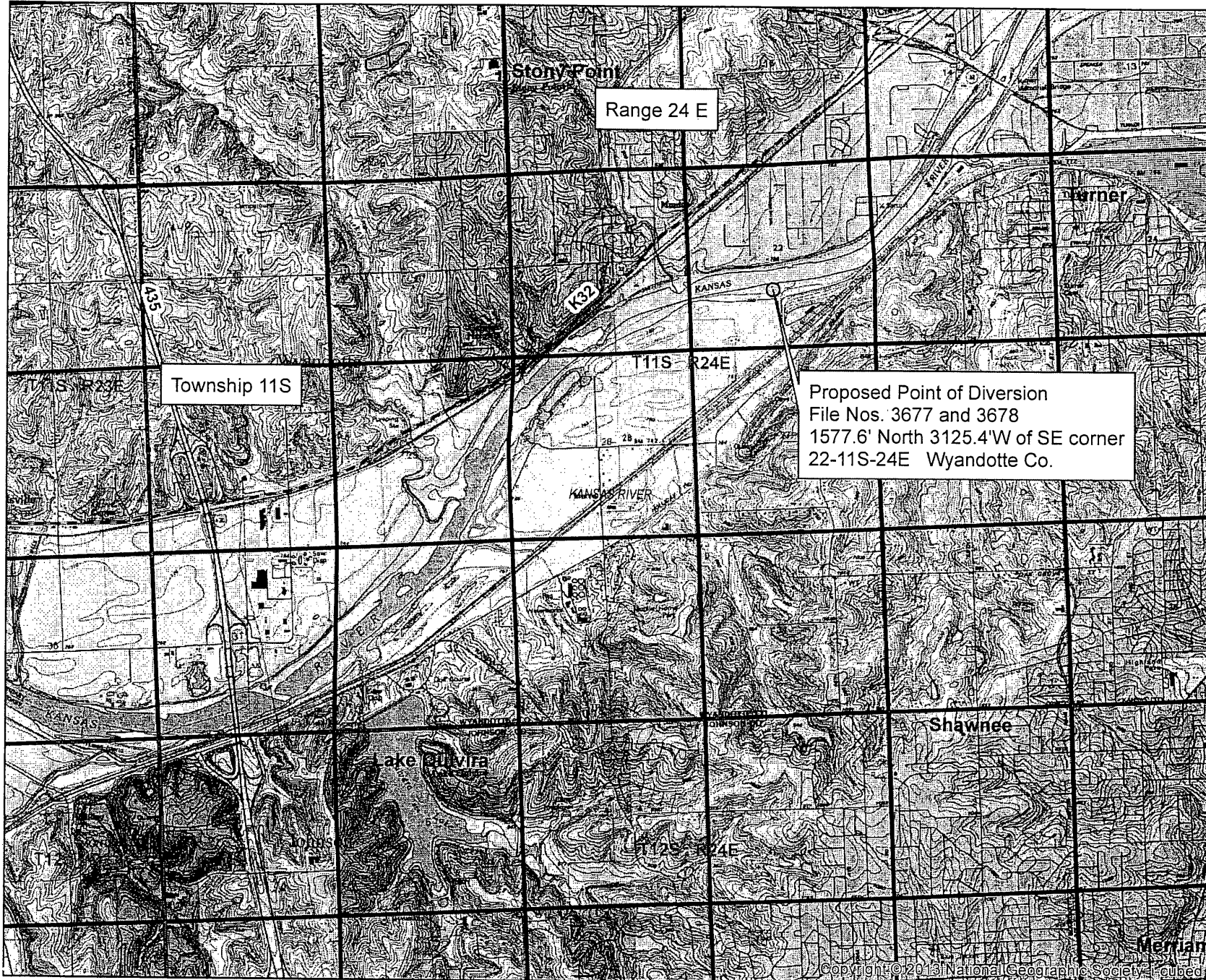
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Environmental Scientist  
Water Appropriation Program

RAK  
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Water District No. 1 Johnson Co.

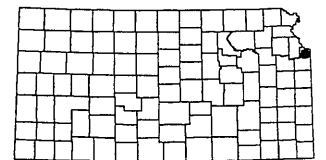
SCANNED

# Applications to Change the PD File Nos. 3677 and 3678



Proposed Point of Diversion  
File Nos. 3677 and 3678  
1577.6' North 3125.4'W of SE corner  
22-11S-24E Wyandotte Co.

Index Map



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0 1,320 2,640 5,280 7,920 10,560 13,200 15,840



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Jackie McClaskey, Secretary

Governor Sam Brownback

July 12, 2017

COPART OF KANSAS INC  
ATTN: TAX DEPARTMENT  
14185 DALLAS PKWY STE 300  
DALLAS TX 75254

RE: Water Right  
File Nos. 3,677 and 3,678

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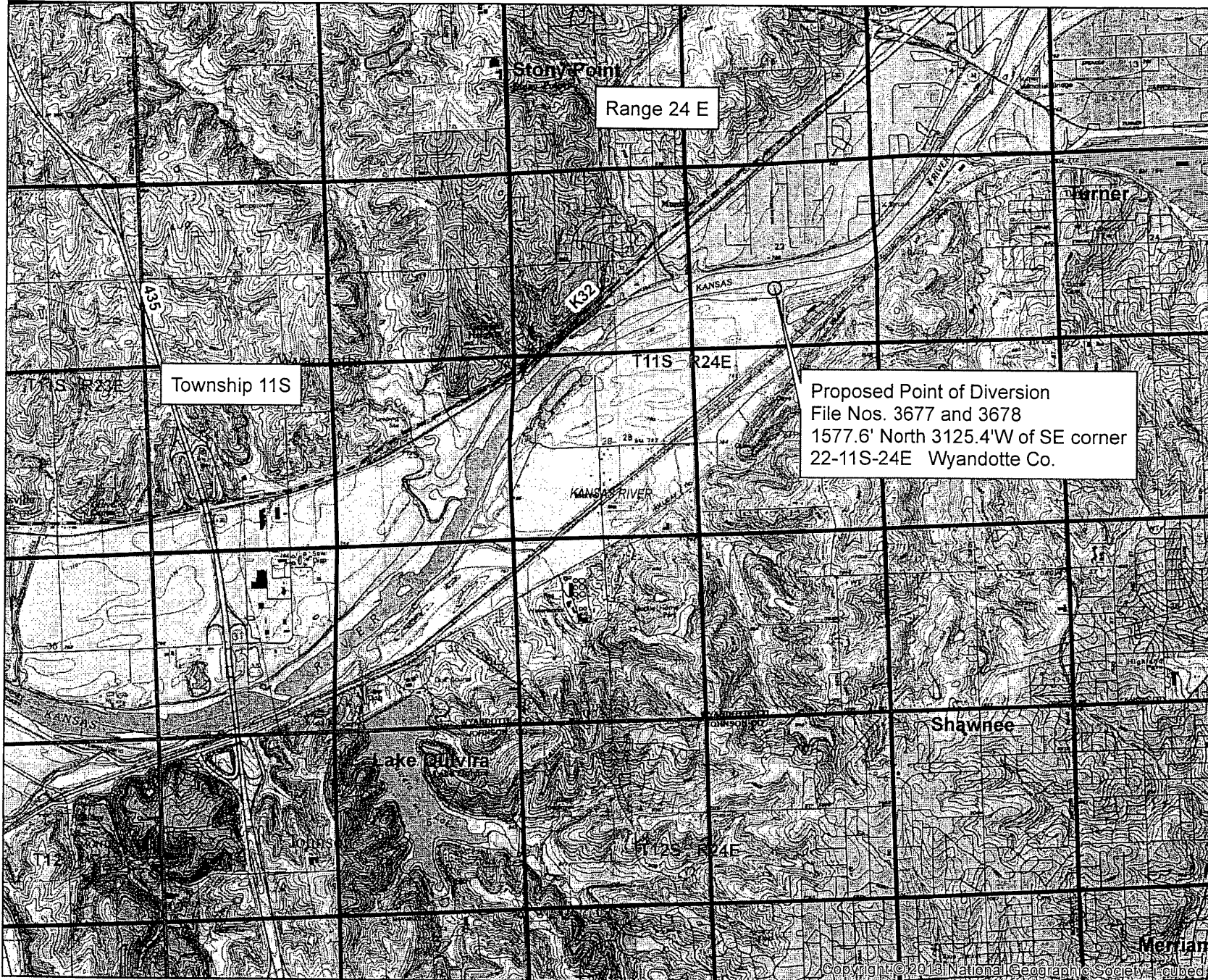
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RAK  
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Water District No. 1 Johnson Co.

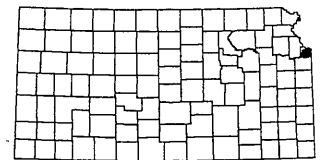
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# Applications to Change the PD File Nos. 3677 and 3678

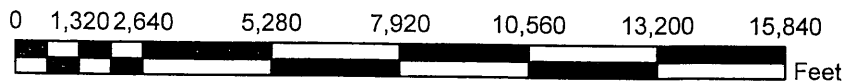


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900 SW Jackson, Room 456  
Topeka, Kansas 66612  
(785) 296-3556

Jackie McClaskey, Secretary

Governor Sam Brownback

July 12, 2017

CORESLAB STRUCTURES INC  
759 S 65<sup>TH</sup> ST  
KANSAS CITY KS 66111

RE: Water Right  
File Nos. 3,677 and 3,678

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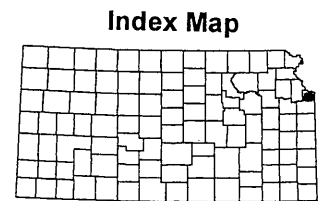
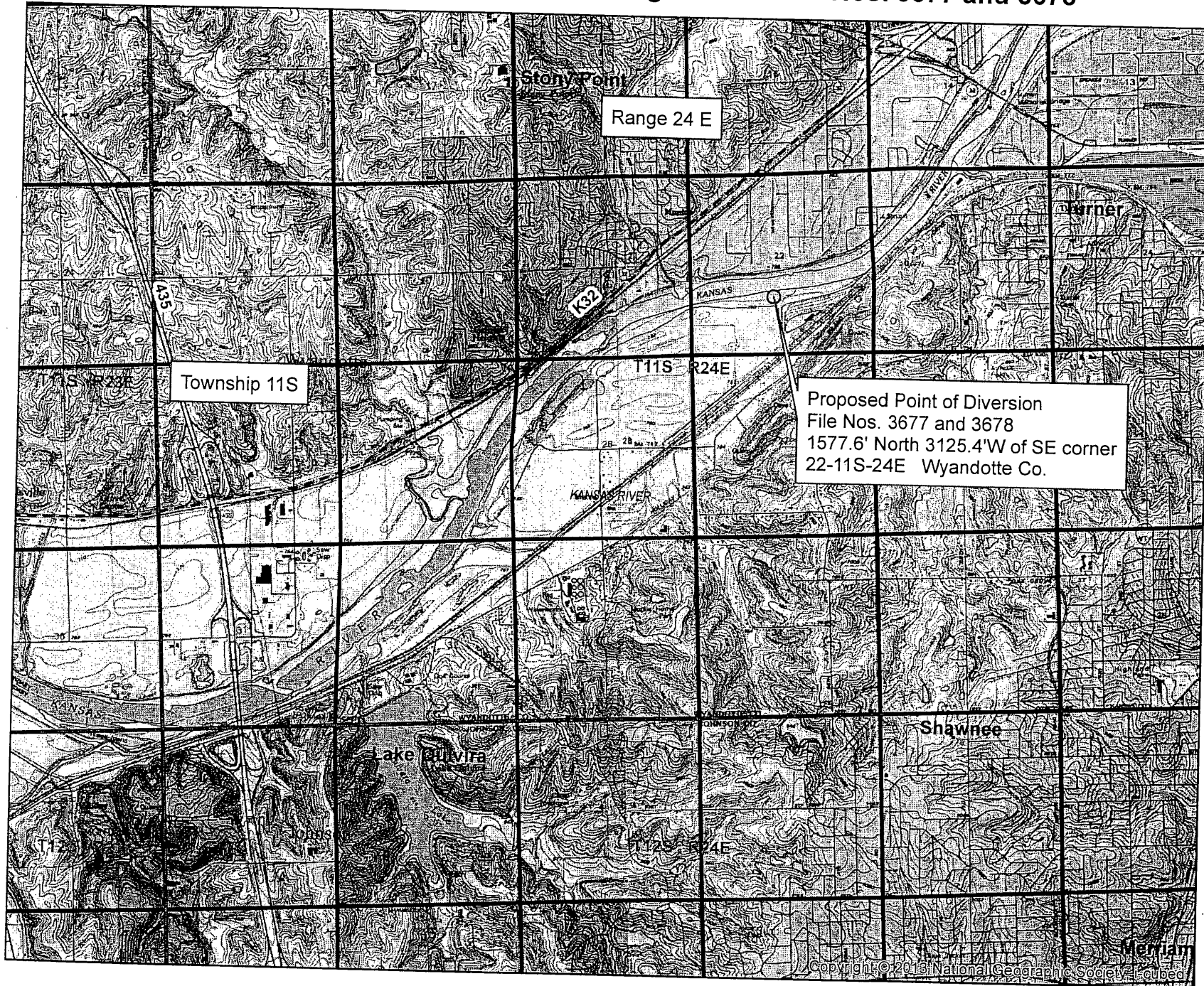
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Water Appropriation Program

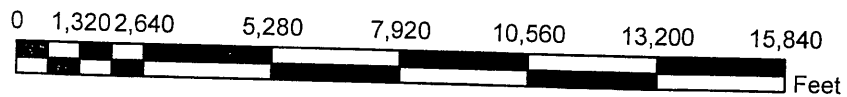
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Jackie McClaskey, Secretary

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July 12, 2017

RONALD A KNAPP  
7655 LACKMAN ROAD  
LENEXA KS 66217

RE: Water Right  
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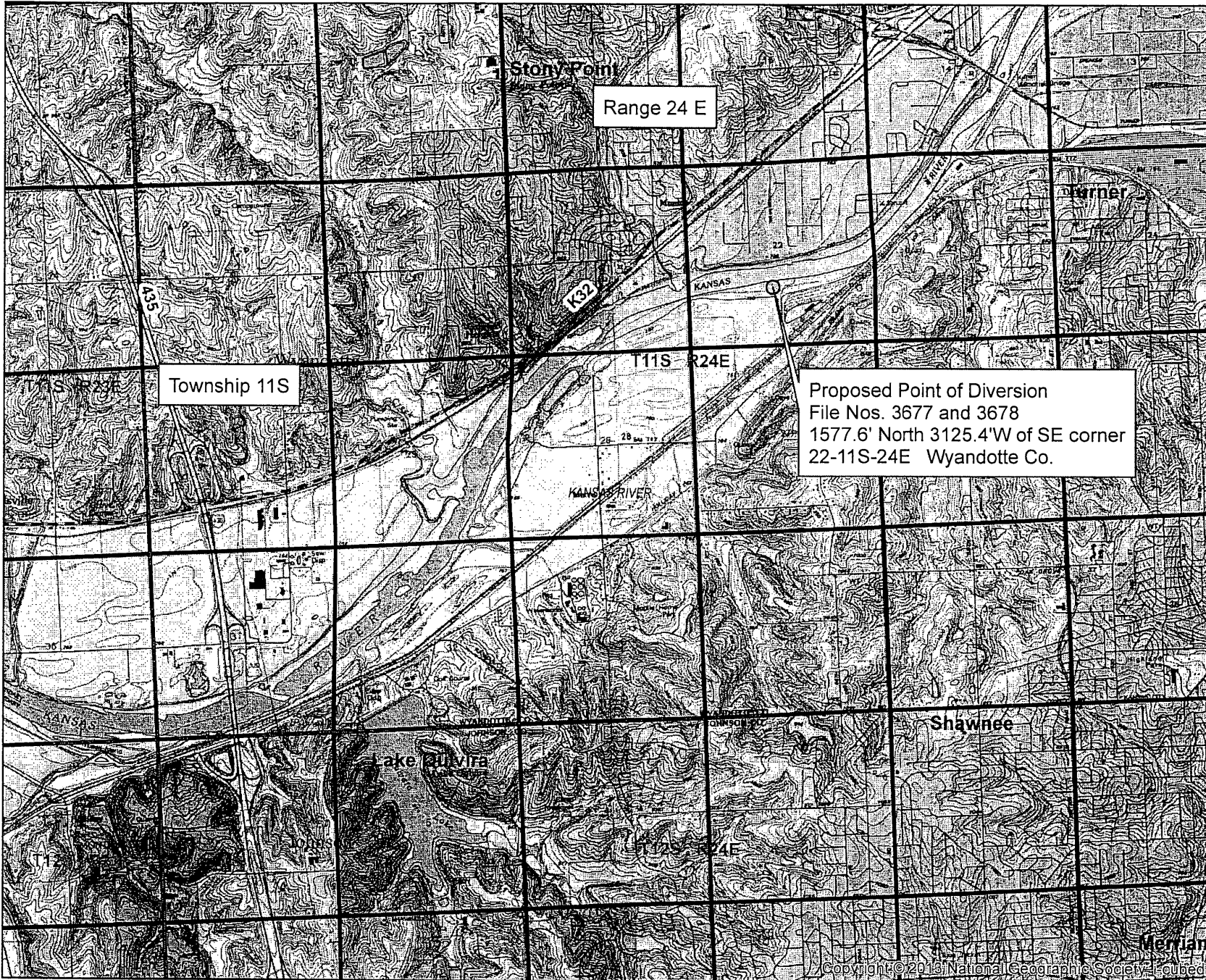
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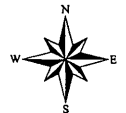
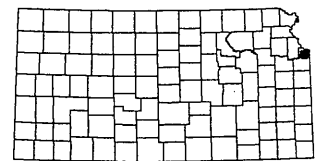
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SCANNED

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Jackie McClaskey, Secretary

Governor Sam Brownback

July 12, 2017

BARTON SOLVENTS INC  
901 S 66<sup>TH</sup> TERR  
KANSAS CITY KS 66111

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File Nos. 3,677 and 3,678

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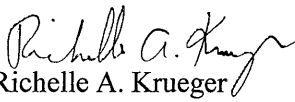
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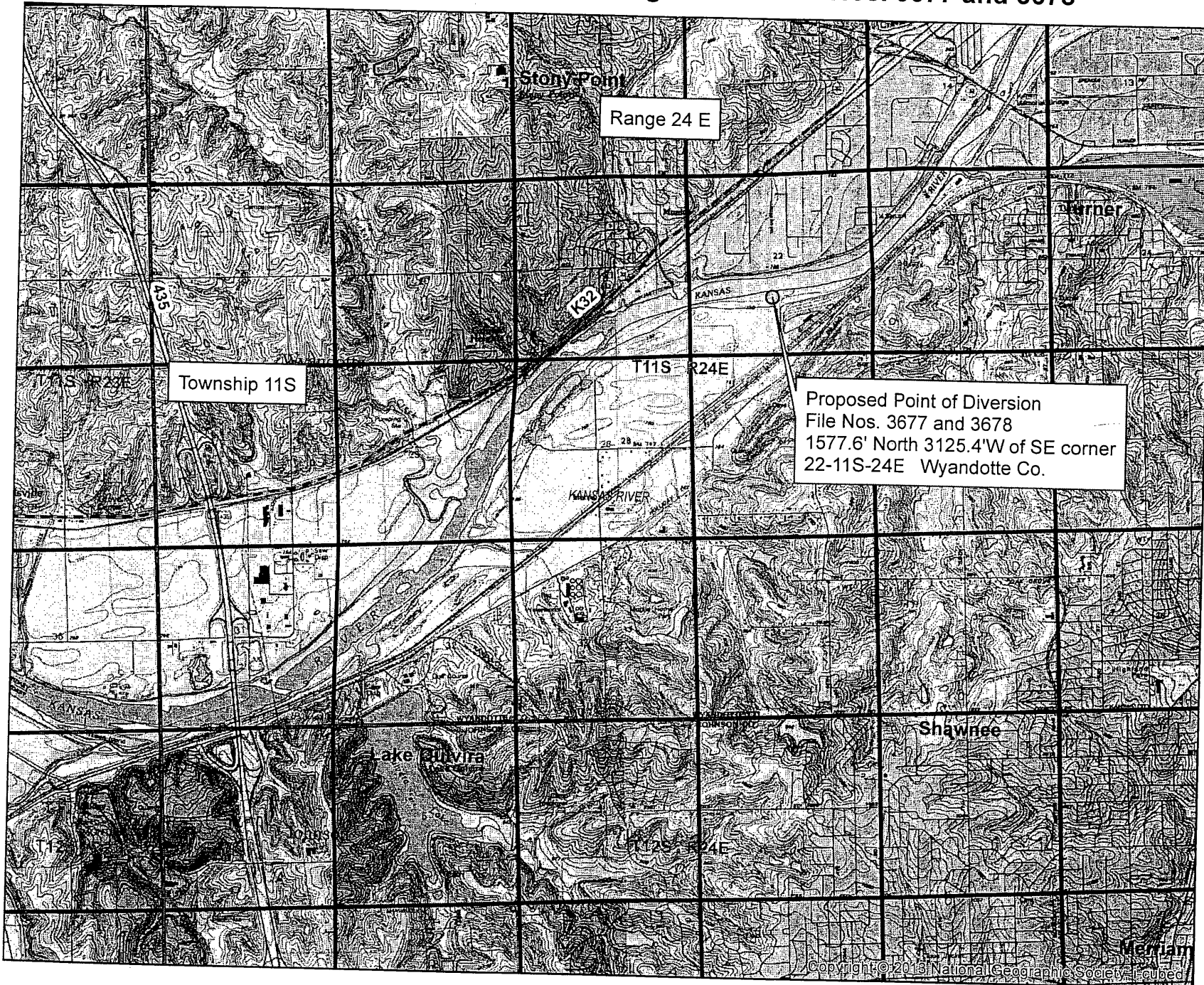
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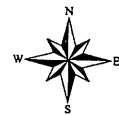
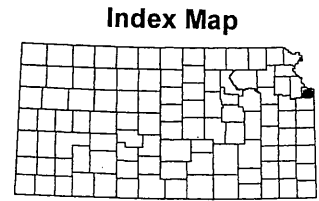
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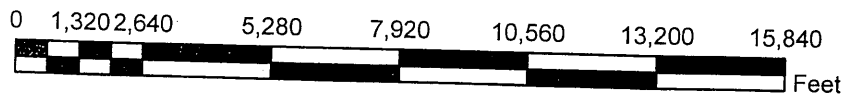
# Applications to Change the PD File Nos. 3677 and 3678



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File Nos. 3677 and 3678  
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22-11S-24E Wyandotte Co.



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Jackie McClaskey, Secretary

Governor Sam Brownback

July 12, 2017

NEW CENTURY PARTNERS LLC  
7939 FLOYD ST STE 200  
OVERLAND PARK KS 66204

RE: Water Right  
File Nos. 3,677 and 3,678

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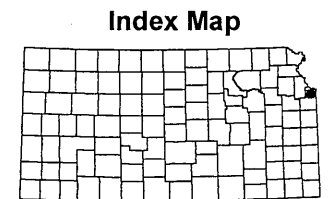
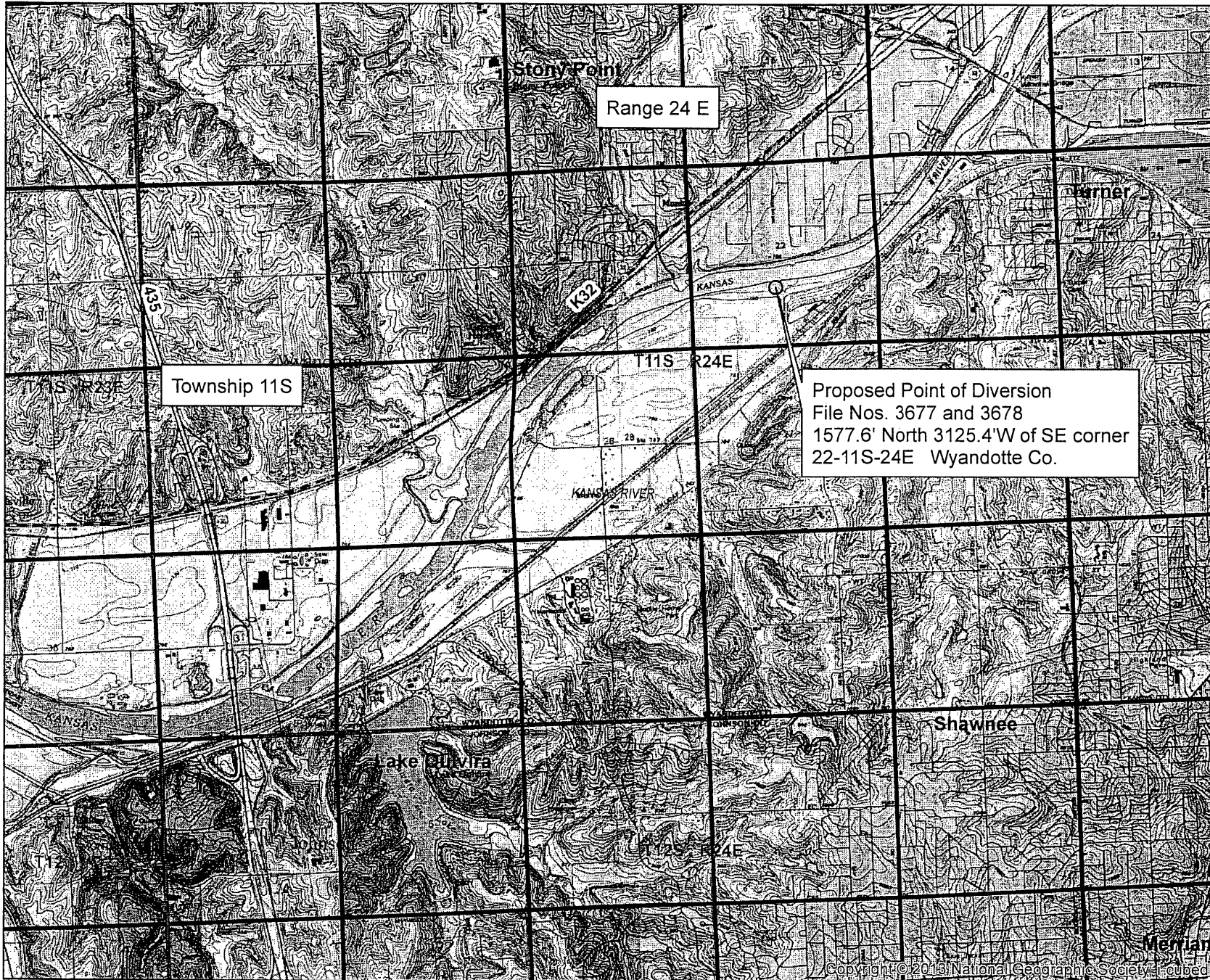
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Water Appropriation Program

RAK  
pc: Topeka Field Office  
Water District No. 1 Johnson Co.

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Feet

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Jackie McClaskey, Secretary

Governor Sam Brownback

July 12, 2017

UNION PACIFIC RAILROAD COMPANY  
PROPERTY TAX DEPARTMENT  
1400 DOUGLAS ST  
OMAHA NE 68179

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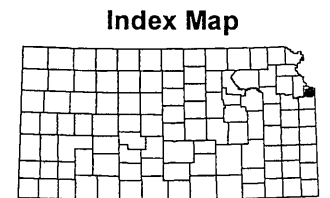
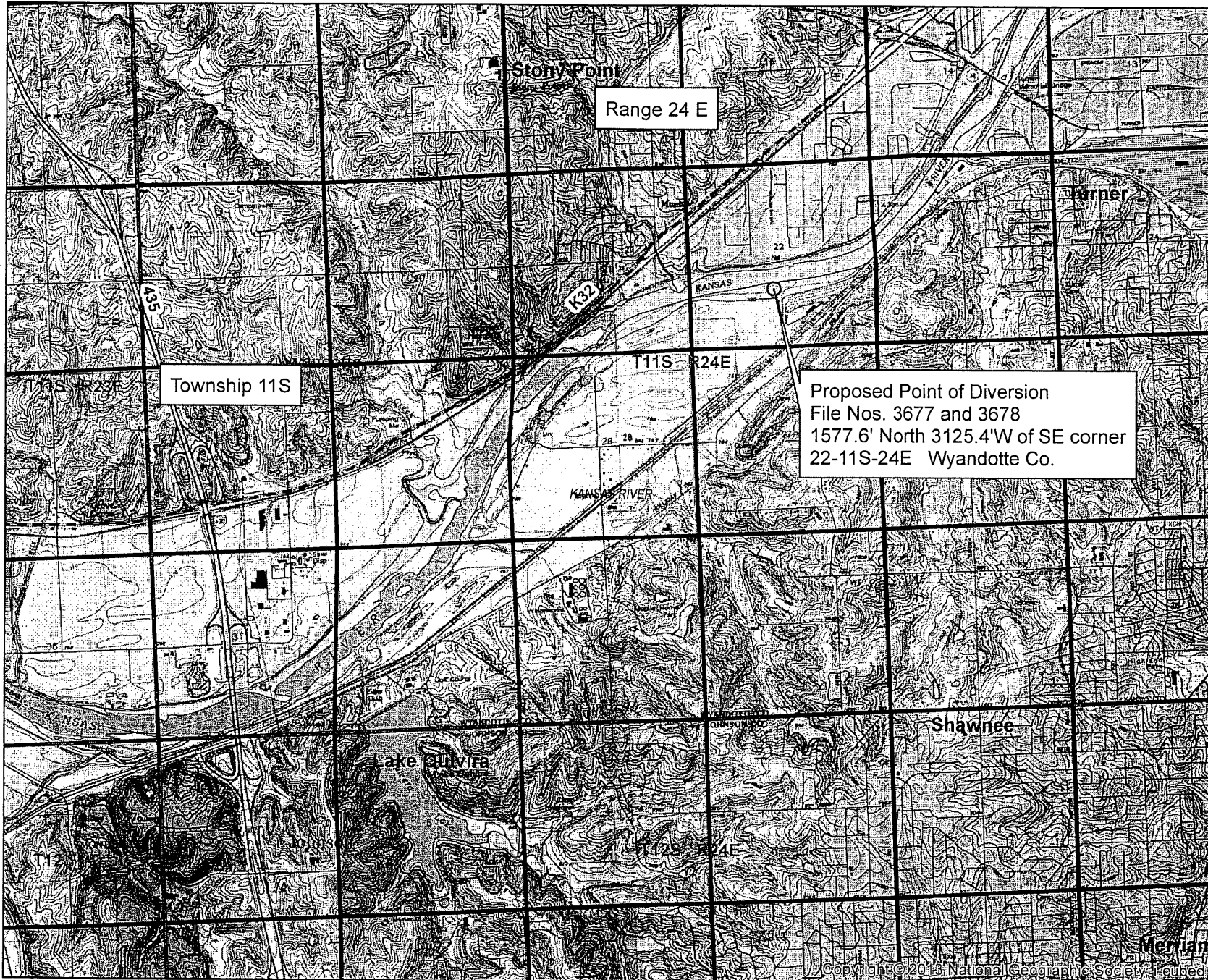
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Jackie McClaskey, Secretary

Governor Sam Brownback

July 12, 2017

BD OF PUBLIC UTILITIES  
540 MINNESOTA AV  
KANSAS CITY KS 66101

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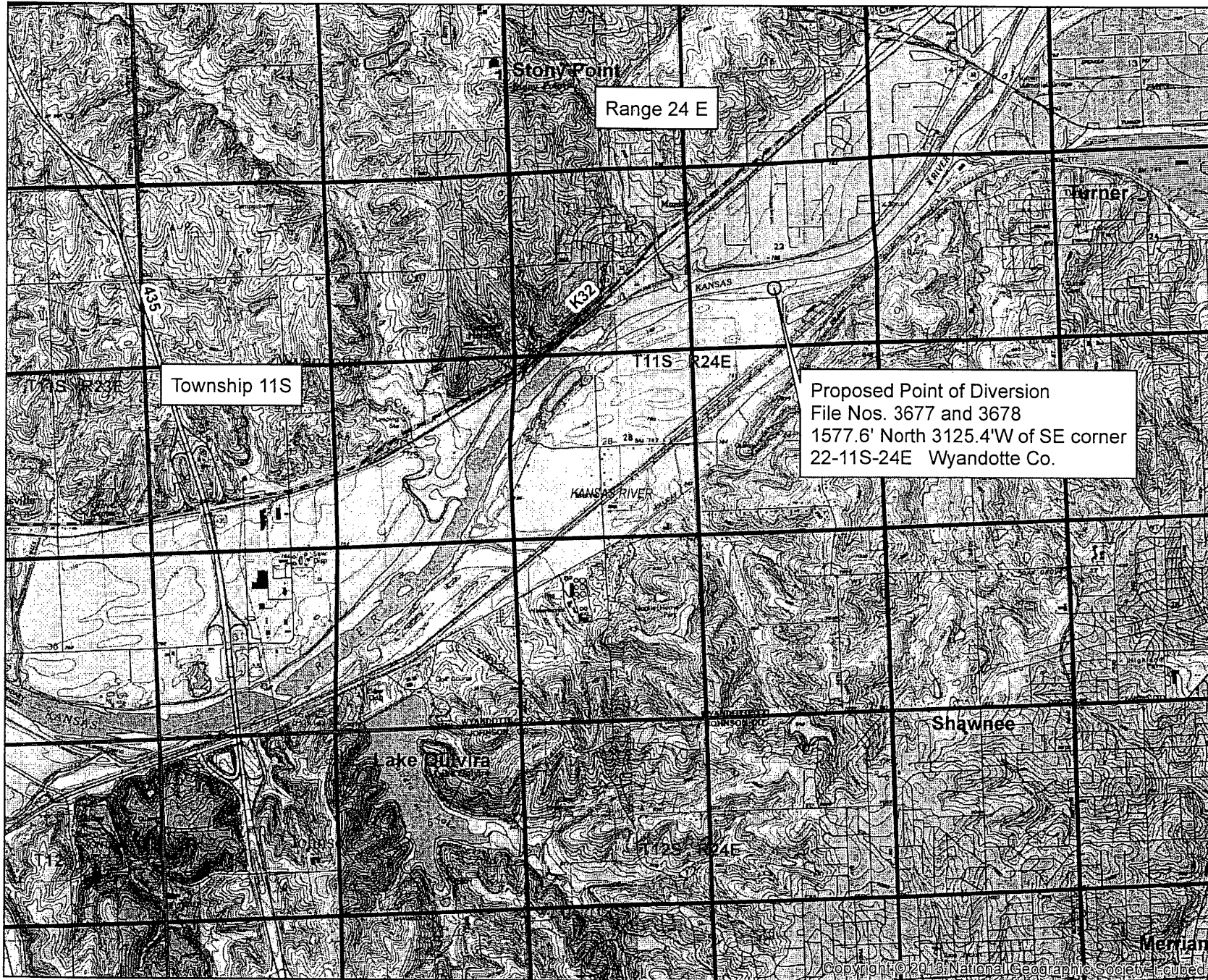
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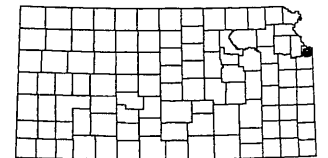
  
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Water Appropriation Program

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Jackie McClaskey, Secretary

Governor Sam Brownback

July 12, 2017

MISSOURI WALNUT LLC  
11417 OAK ROAD  
NEOSHO MO 64850

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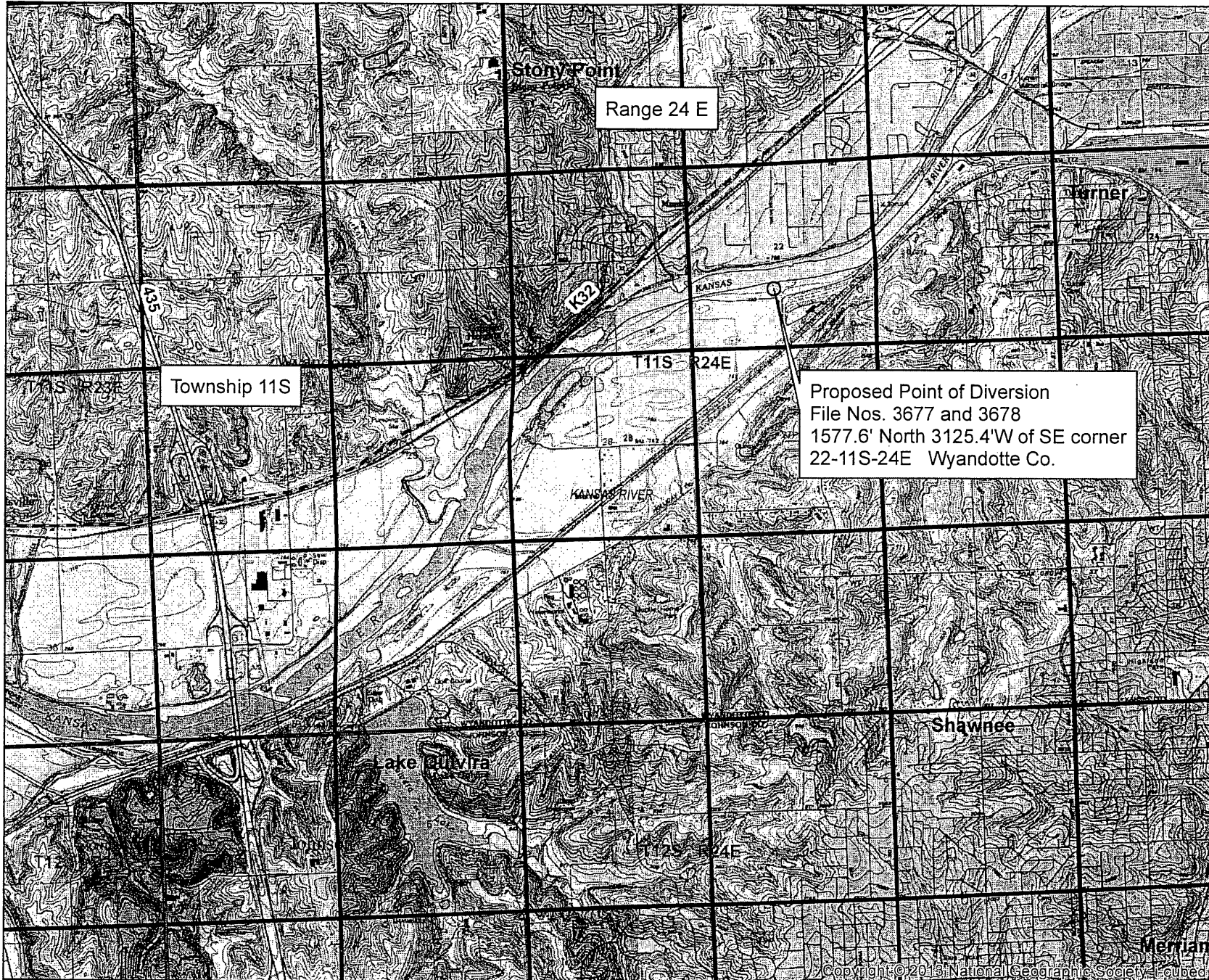
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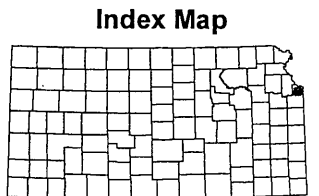
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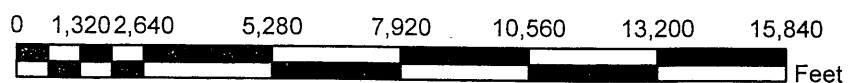
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Jackie McClaskey, Secretary

Governor Sam Brownback

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GRIFFIN WHEEL COMPANY INC  
7111 GRIFFIN RD  
KANSAS CITY KS 66111

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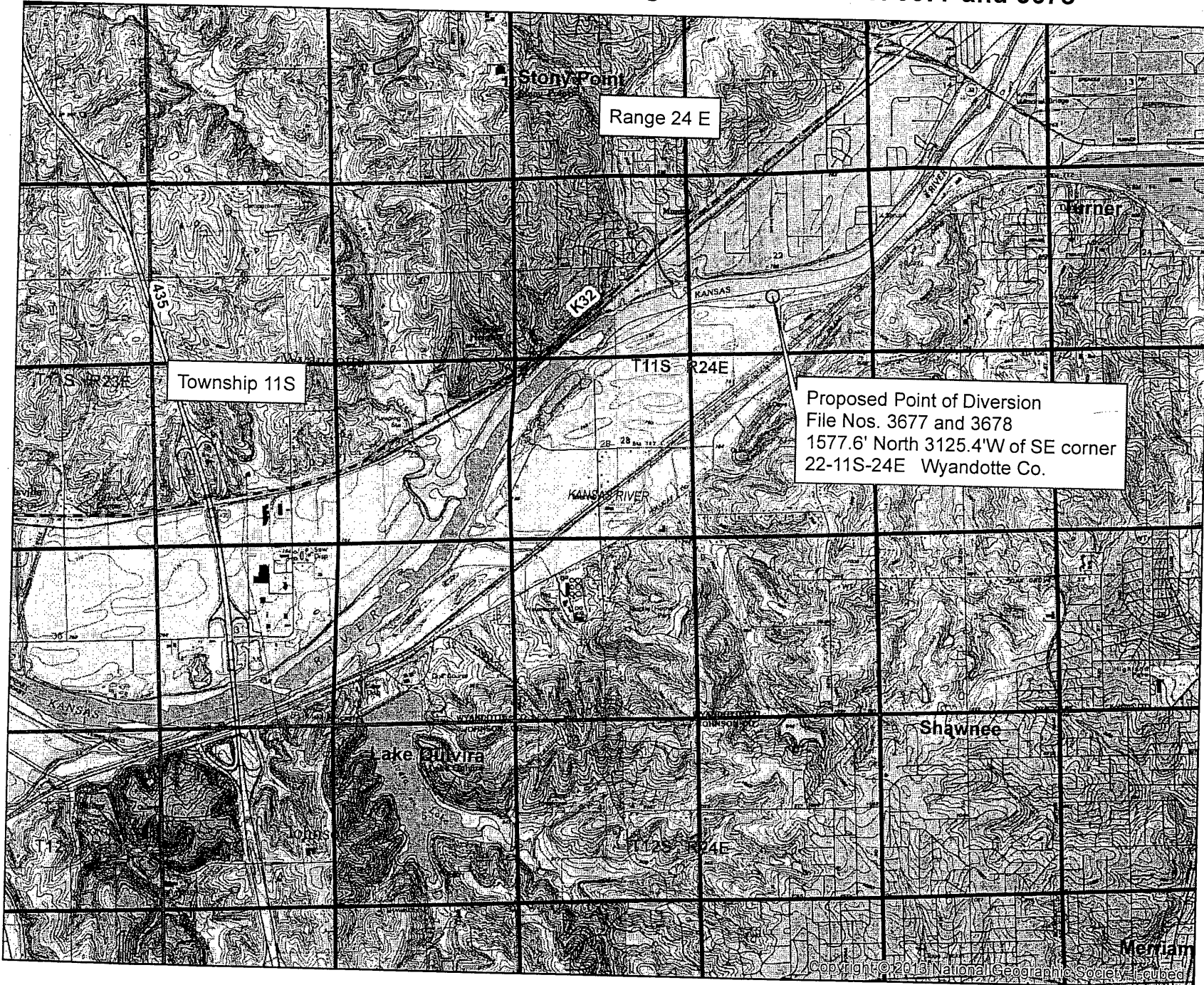
If you have any questions, please contact me at (785) 564-6635 or Brent Turney, Change Application Unit Supervisor at (785) 564-6645. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,

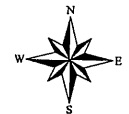
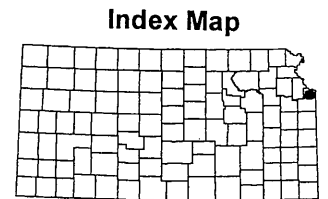
Richelle A. Krueger  
Environmental Scientist  
Water Appropriation Program

RAK  
pc: Topeka Field Office  
Water District No. 1 Johnson Co.

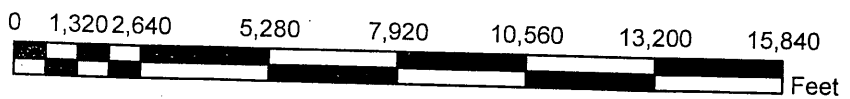
# Applications to Change the PD File Nos. 3677 and 3678



Proposed Point of Diversion  
File Nos. 3677 and 3678  
1577.6' North 3125.4'W of SE corner  
22-11S-24E Wyandotte Co.



1:48,000



Merriam  
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This map was created by WIMAS on 7/3/2017 11:35:33 AM

1320 Research Park Drive  
Manhattan, Kansas 66502  
(785) 564-6700



900 SW Jackson, Room 456  
Topeka, Kansas 66612  
(785) 296-3556

Jackie McClaskey, Secretary

Governor Sam Brownback

July 12, 2017

GRIFFIN WHEEL COMPANY INC  
8101 COLLEGE BLVD STE 200  
OVERLAND PARK KS 66210

RE: Water Right  
File Nos. 3,677 and 3,678

Dear Sir or Madam:

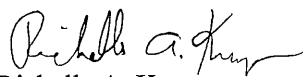
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If you have any questions, please contact me at (785) 564-6635 or Brent Turney, Change Application Unit Supervisor at (785) 564-6645. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

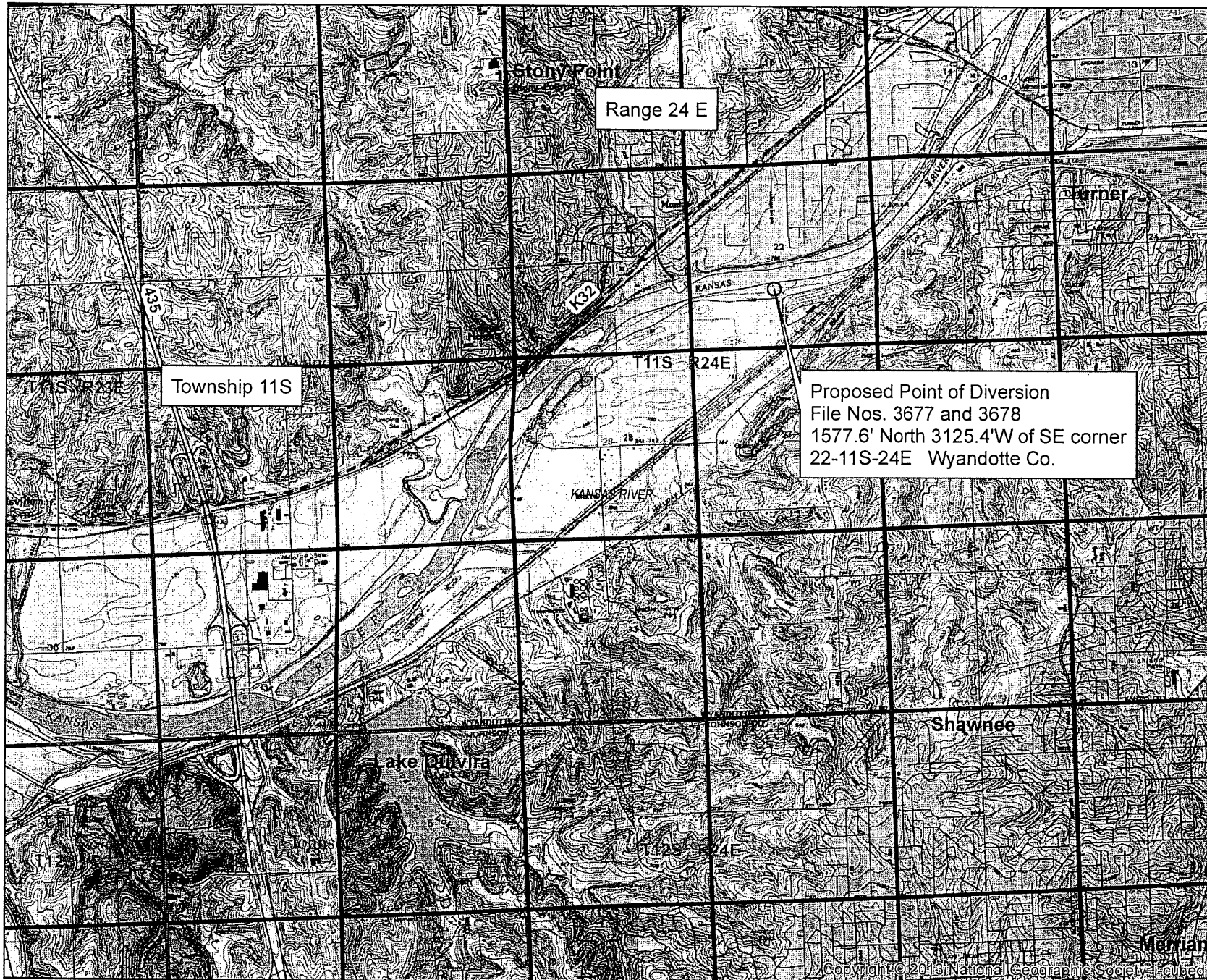
Sincerely,

  
Richelle A. Krueger  
Environmental Scientist  
Water Appropriation Program

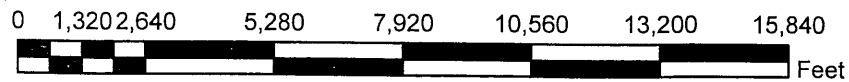
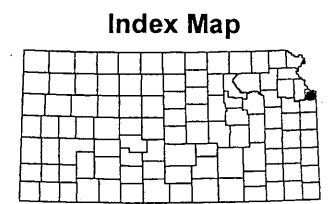
RAK

pc: Topeka Field Office  
Water District No. 1 Johnson Co.

# Applications to Change the PD File Nos. 3677 and 3678



Proposed Point of Diversion  
File Nos. 3677 and 3678  
1577.6' North 3125.4'W of SE corner  
22-11S-24E Wyandotte Co.



1:48,000

1320 Research Park Drive  
Manhattan, Kansas 66502  
(785) 564-6700



900 SW Jackson, Room 456  
Topeka, Kansas 66612  
(785) 296-3556

Jackie McClaskey, Secretary

Governor Sam Brownback

July 12, 2017

7259 KAW LLC  
9231 LEAVENWORTH RD  
KANSAS CITY KS 66109

RE: Water Right  
File Nos. 3,677 and 3,678

Dear Sir or Madam:


This is to advise you that Water District No. 1 of Johnson County has filed applications for approval of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, to change the point of diversion under the above referenced file numbers. The referenced applications propose to add a collector well as an authorized point of diversion at the following location:

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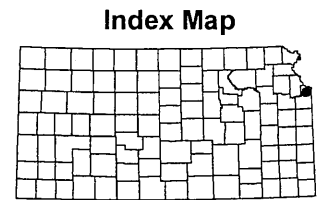
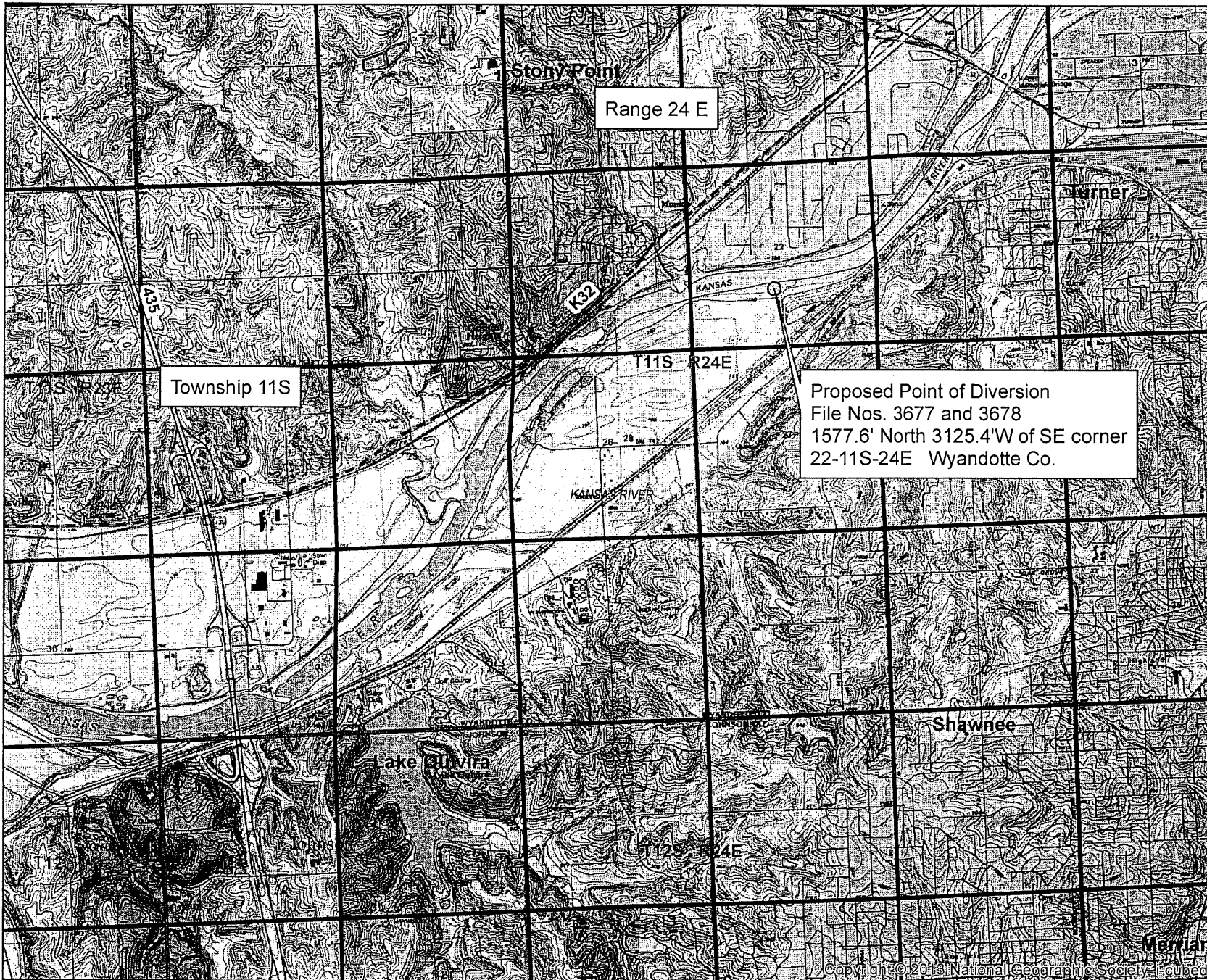
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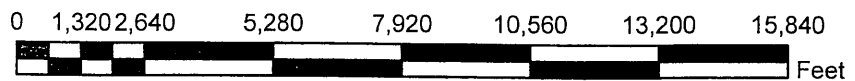
  
Richelle A. Krueger  
Environmental Scientist  
Water Appropriation Program

RAK  
pc: Topeka Field Office  
Water District No. 1 Johnson Co.

# Applications to Change the PD File Nos. 3677 and 3678



1:48,000



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(785) 564-6700



900 SW Jackson, Room 456  
Topeka, Kansas 66612  
(785) 296-3556

Jackie McClaskey, Secretary

Governor Sam Brownback

July 12, 2017

G&G HOLDINGS LLC  
PO BOX 860603  
SHAWNEE KS 66286

RE: Water Right  
File Nos. 3,677 and 3,678

Dear Sir or Madam:

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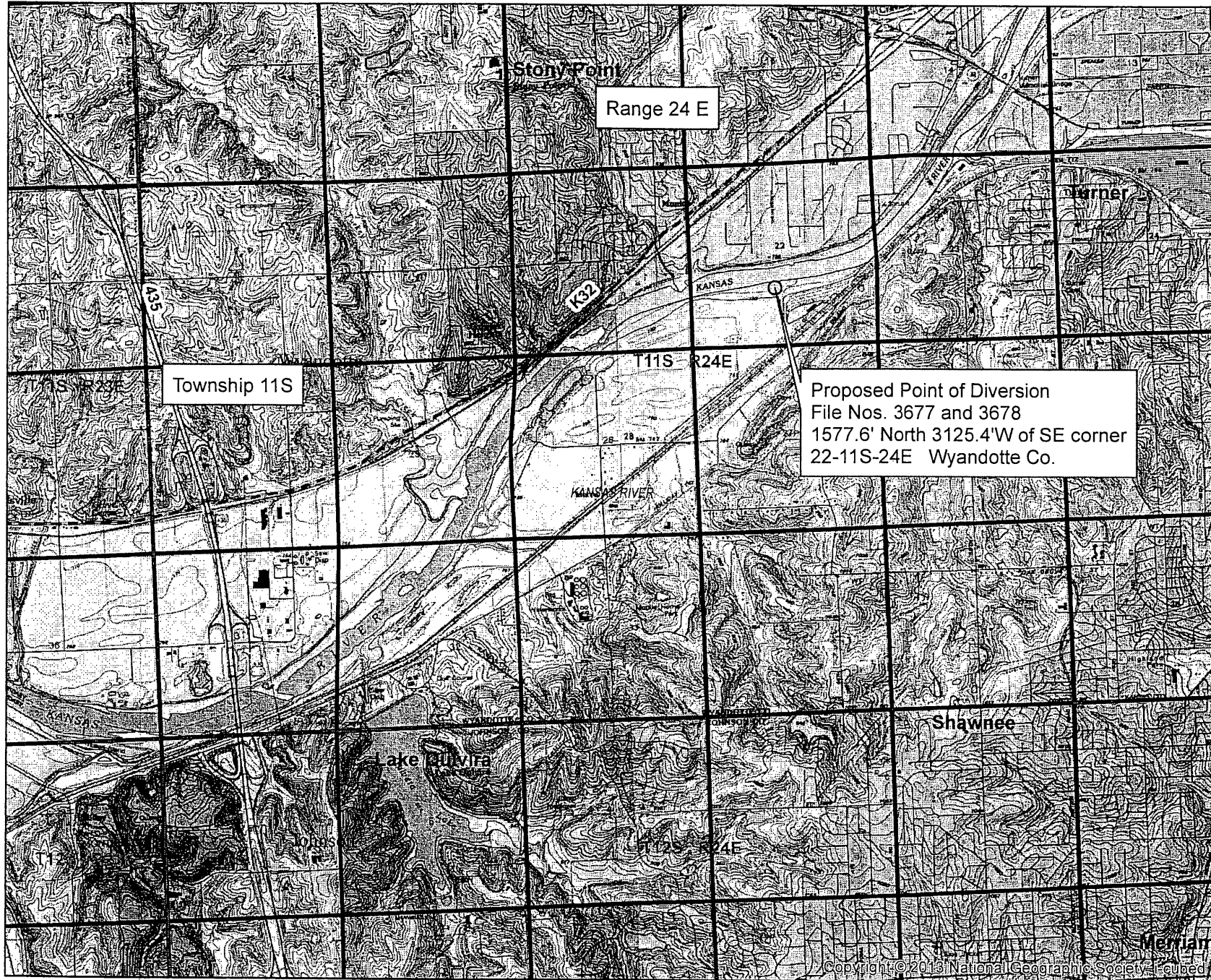
Sincerely,

A handwritten signature in cursive script that reads "Richelle A. Krueger".

Richelle A. Krueger  
Environmental Scientist  
Water Appropriation Program

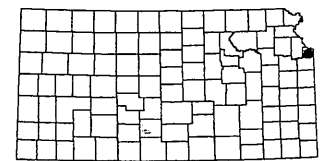
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Water District No. 1 Johnson Co.

# Applications to Change the PD File Nos. 3677 and 3678

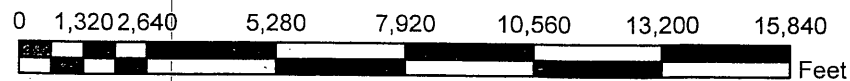


Proposed Point of Diversion  
File Nos. 3677 and 3678  
1577.6' North 3125.4'W of SE corner  
22-11S-24E Wyandotte Co.

Index Map



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900 SW Jackson, Room 456  
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(785) 296-3556

Jackie McClaskey, Secretary

Governor Sam Brownback

July 12, 2017

KAW VALLEY COMPANIES  
KAW VALLEY SAND AND GRAVEL INC  
DAN HAYS  
5600 KANSAS AVE  
KANSAS CITY KS 66106

RE: Water Right  
File Nos. 3,677 and 3,678

Dear Sir or Madam:

This is to advise you that Water District No. 1 of Johnson County has filed applications for approval of the Chief Engineer, Division of Water Resources, Kansas Department of Agriculture, to change the point of diversion under the above referenced file numbers. The referenced applications propose to add a collector well as an authorized point of diversion at the following location:

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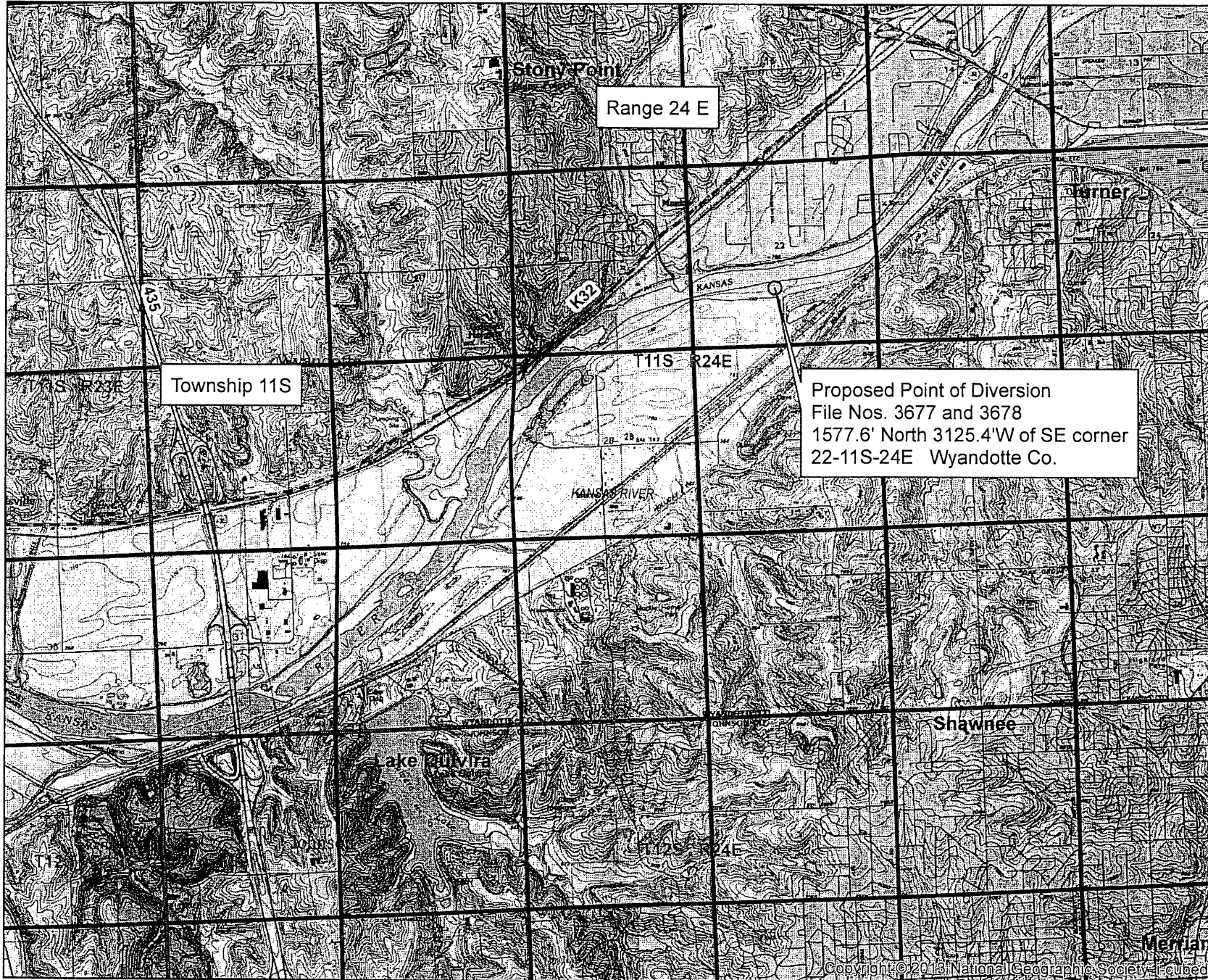
Sincerely,

Richelle A. Krueger  
Environmental Scientist  
Water Appropriation Program

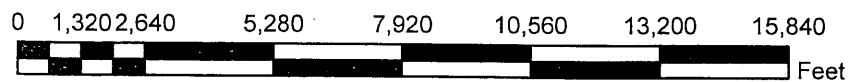
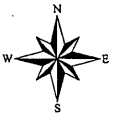
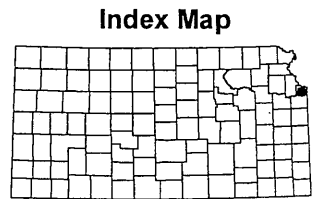
RAK  
pc: Topeka Field Office  
Water District No. 1 Johnson Co.

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# Applications to Change the PD File Nos. 3677 and 3678



Proposed Point of Diversion  
File Nos. 3677 and 3678  
1577.6' North 3125.4'W of SE corner  
22-11S-24E Wyandotte Co.



1:48,000

## Krueger, Richelle

---

**From:** Schemm, Doug  
**Sent:** Wednesday, July 12, 2017 2:01 PM  
**To:** krwad@att.net  
**Cc:** Westrup, Nathan; 'Cara.Hendricks@kwo.ks.gov'; Krueger, Richelle  
**Subject:** Water One Changes File Nos. 3677 and 3678  
**Attachments:** Scan - Inbox\_026.pdf; Scan - Inbox\_027.pdf; 3677 and 3678 Notification of Assurance District.docx

Good Afternoon Galen,  
Enclosed are copies of pending change applications for Water District No. 1 of Johnson County.  
The changes will allow construction of a proposed collector well.  
Have a great day,  
Doug

SCANNED



Topeka Field Office  
6531 SE Forbes Ave., Suite B  
Topeka, Kansas 66619

Jackie McClaskey, Secretary  
David W. Barfield, Chief Engineer  
Katherine A. Tietsort, Water Commissioner

Phone: (785) 296-5733  
Fax: (785) 862-2460  
[www.agriculture.ks.gov](http://www.agriculture.ks.gov)  
Sam Brownback, Governor

July 12, 2017

KANSAS RIVER WATER ASSURANCE DISTRICT NO 1  
% GALEN BIERY  
212 SW 7<sup>TH</sup> STREET  
TOPEKA KS 66603-3717

Re: Pending Change Applications, File Nos. 3677 and 3678

Dear Mr. Biery:

This is to advise you that Water District No. 1 of Johnson County has filed the change applications referenced above proposing to add a collector well as an authorized point of diversion. The collector well would be located in the East Half of the Southwest Quarter of Section 22, Township 11 South, Range 24 East, Wyandotte County, Kansas. Water District No. 1 was determined to be a benefitting member of the Kansas River Water Assurance District No. 1. In addition, the Kansas Water Office will also be reviewing these applications.

As you know, the Kansas River Water Assurance Program Operations Agreement states, in part, that "the District reserves the right to review all new applications to appropriate water and change applications, filed with the Division of Water Resources that propose the diversion of water from the Kansas River or its alluvium within the District boundaries". Furthermore, the District shall be given 15 calendar days to make any comments and recommendations following notification by either electronic mail or U.S. Postal Service from the DWR that the application has been filed.

Therefore, you are being notified of receipt of these change applications in order that you may be fully informed of the proposed location of the applicant's point of diversion and proposed use of water. If you have any questions, please contact me at (785) 296-3495 or Richelle Krueger at (785) 564-6635. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,

Doug Schemm  
Environmental Scientist  
Topeka Field Office

pc: Kansas Water Office

SCANNED

## Krueger, Richelle

---

**From:** Hemphill, Lloyd  
**Sent:** Friday, July 7, 2017 11:32 AM  
**To:** Krueger, Richelle  
**Subject:** WaterOne River Lot Descriptions  
**Attachments:** WaterOne\_LHH.PDF; WaterOne PDS.XLS

Richelle,

Before she left on her trip, Katie asked me to identify the river lot descriptions for the WaterOne pd's.

I think that the attached files should get you what you need.

Let me know if you need anything else or have any questions.

Lloyd Hemphill, Environmental Scientist  
Kansas Department of Agriculture  
Division of Water Resources, Topeka Field Office  
6531 SE Forbes Ave., Suite B  
Topeka, KS 66619  
(785) 296-5733  
Please note my new email address: [Lloyd.Hemphill@ks.gov](mailto:Lloyd.Hemphill@ks.gov)

WATER RESOURCES  
RECEIVED  
JUL 07 2017  
KS DEPT OF AGRICULTURE

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File No. 3677

WaterOne

PDIV ID	ID	Well #	Authorized Location	County	Actual Location	GPS Lat	GPS Long	Diff	River Lot
39274	2	# 1	32-T11S-R24E 4650N 100W NE NE NE	WY	32-T11S-R24E 4619N 93W SE NE NE	39.0566	-94.76136	Δ' = 32'	None
6637	3	# 2	32-T11S-R24E 4650N 500W NE NE NE	WY	32-T11S-R24E 4616N 641W SE NE NE	39.05659	-94.76329	Δ' = 145'	None
20800	4	# 3	32-T11S-R24E 4650N 1000W NW NE NE	WY	32-T11S-R24E 4677N 1093W NW NE NE	39.05659	-94.76488	Δ' = 97'	None
21158	6	# 4	32-T11S-R24E 4650N 1500W NE NW NE	WY	32-T11S-R24E 4583N 1635W SE NW NE	39.0565	-94.76679	Δ' = 151'	Lot 1
23080	5	# 5	32-T11S-R24E 5000N 1300W NW NE NE	WY	32-T11S-R24E 4965N 1303W NW NE NE	39.05755	-94.76562	Δ' = 35'	None
21896	4	# 6	29-T11S-R24E 100N 900W SW SE SE	WY	29-T11S-R24E 137N 891W SW SE SE	39.059	-94.76423	Δ' = 38'	Lot 1
51345	3	# 7	29-T11S-R24E 350N 650W CS SE SE	WY	29-T11S-R24E 341N 635W SE SE SE	39.05956	-94.76333	Δ' = 18'	Lot 1
17566	2	# 8	29-T11S-R24E 700N 350W NE SE SE	WY	29-T11S-R24E 698N 337W NE SE SE	39.06054	-94.76228	Δ' = 13'	Lot 1
30762	1	# 9	29-T11S-R24E 1000N 100W NE SE SE	WY	29-T11S-R24E 1073N 11W NE SE SE	39.06157	-94.76113	Δ' = 104'	Lot 1
9659	9	# 10	28-T11S-R24E 1650N 5000W SW NW SW	WY	28-T11S-R24E 1566N 5098W SW NW SW	39.06271	-94.76031	Δ' = 129'	None
20219	8	# 11	28-T11S-R24E 2200N 4700W NW NW SW	WY	28-T11S-R24E 2196N 4851W NW NW SW	39.06444	-94.75944	Δ' = 151'	None
17133	6	# 12	28-T11S-R24E 2950N 4300W SE SW NW	WY	28-T11S-R24E 2786N 4417W SE SW NW	39.06606	-94.75791	Δ' = 202'	Lot 3
3567	5	# 13	28-T11S-R24E 3400N 4000W NE SW NW	WY	28-T11S-R24E 3405N 4099W NE SW NW	39.06776	-94.75679	Δ' = 99'	Lot 3
22710	7	# 14	28-T11S-R24E 3800N 3800W NW SE NW	WY	28-T11S-R24E 3929N 3642W NW SE NW	39.0692	-94.75518	Δ' = 204'	None
40857	4	# 15	28-T11S-R24E 4400N 3000W SE NE NW	WY	28-T11S-R24E 4388N 3139W SE NE NW	39.07046	-94.75341	Δ' = 140'	Lot 2
11190	3	# 16	28-T11S-R24E 4950N 2300W NW NW NE	WY	28-T11S-R24E 4799N 2540W NW NW NE	39.07159	-94.7513	Δ' = 284'	Lot 1
28542	2	# 17	28-T11S-R24E 5200N 1900W NE NW NE	WY	28-T11S-R24E 5196N 1975W NE NW NE	39.07268	-94.74931	Δ' = 75'	Lot 1
22161	1	# 18	21-T11S-R24E 100N 1400W SE SW SE	WY	21-T11S-R24E 149N 1308W SW SE SE	39.07353	-94.74707	Δ' = 104'	Lot 1
41015	2	# 19	21-T11S-R24E 350N 1000W SW SE SE	WY	21-T11S-R24E 371N 644W SE SE SE	39.07414	-94.74473	Δ' = 357'	Lot 1
31306	2	# 20	22-T11S-R24E 600N 5200W SW SW SW	WY	22-T11S-R24E 606N 5278W SW SW SW	39.0748	-94.7423	Δ' = 78'	Lot 4
16483	1	# 21	22-T11S-R24E 800N 4600W NE SW SW	WY	22-T11S-R24E 839N 4616W NE SW SW	39.07544	-94.73997	Δ' = 42'	Lot 4

WATER RESOURCES  
 RECEIVED  
 JUL 07 2017  
 KS DEPT OF AGRICULTURE



## Krueger, Richelle

---

**From:** Paul D. Corkill <pcorkill@waterone.org>  
**Sent:** Friday, June 30, 2017 3:49 PM  
**To:** Tietsort, Katie  
**Cc:** Krueger, Richelle; Hanley G. Barker; Michelle Wirth; Winger, James G. (Jim); Sandy G. Paterson  
**Subject:** RE: KS Collector Well change applications

Shure will.

Thanks again,

Paul D Corkill PE  
Water Planning & Asset Management  
WaterOne  
7601 Holliday Drive  
Kansas City Kansas, 66106

pcorkill@waterone.org  
913-895-5813 office  
913-638-5494 cell

---

**From:** Tietsort, Katie [mailto:Katie.Tietsort@ks.gov]  
**Sent:** Friday, June 30, 2017 1:05 PM  
**To:** Paul D. Corkill  
**Cc:** Krueger, Richelle; Hanley G. Barker; Michelle Wirth; Winger, James G. (Jim); Sandy G. Paterson  
**Subject:** RE: KS Collector Well change applications

Great Paul.

Can you make sure that the information is sent to Richelle Krueger in the Manhattan office since she is working the applications, please?

Thanks, Katie

Katie Tietsort

Kansas Department of Agriculture  
6531 SE Forbes Ave Ste B  
Topeka, KS 66619  
[katie.tietsort@ks.gov](mailto:katie.tietsort@ks.gov)  
Phone 785-296-5733

---

**From:** Paul D. Corkill [mailto:[pcorkill@waterone.org](mailto:pcorkill@waterone.org)]  
**Sent:** Friday, June 30, 2017 12:50 PM  
**To:** Tietsort, Katie <[Katie.Tietsort@ks.gov](mailto:Katie.Tietsort@ks.gov)>  
**Cc:** Krueger, Richelle <[Richelle.Krueger@ks.gov](mailto:Richelle.Krueger@ks.gov)>; Hanley G. Barker <[hbarker@waterone.org](mailto:hbarker@waterone.org)>; Michelle Wirth <[mwirth@waterone.org](mailto:mwirth@waterone.org)>; Winger, James G. (Jim) <[WingerJG@bv.com](mailto:WingerJG@bv.com)>; Sandy G. Paterson <[spaterson@waterone.org](mailto:spaterson@waterone.org)>  
**Subject:** RE: KS Collector Well change applications

SCANNED

Katie,

I checked with B&V this morning and requested information about the additional data that you need. There are a couple of model runs that they want to touch up. They will be doing that for us and it sounds like I should be able to get all of that additional data to you by end of week next week.

Thank you for calling.

Paul D Corkill PE  
Water Planning & Asset Management  
WaterOne  
7601 Holliday Drive  
Kansas City Kansas, 66106

[pcorkill@waterone.org](mailto:pcorkill@waterone.org)  
913-895-5813 office  
913-638-5494 cell

---

**From:** Tietsort, Katie [<mailto:Katie.Tietsort@ks.gov>]  
**Sent:** Friday, June 30, 2017 10:25 AM  
**To:** Paul D. Corkill  
**Cc:** Krueger, Richelle  
**Subject:** Collector Well change applications

Hi Paul,

As we discussed this morning, the applications came with a CD disk that contains report information and unless it was missed in there, we aren't finding where the specific requirements mentioned in the attached modeling requirements for collector wells sheets are contained. We didn't find impacts mapping of the stream and local wells, including the drawdowns, the interaction, and the other required modeling results. Can you point us to that or provide this information so that work on processing these change applications can continue?

Thanks, Katie

Katie Tietsort

Kansas Department of Agriculture  
6531 SE Forbes Ave Ste B  
Topeka, KS 66619  
[katie.tietsort@ks.gov](mailto:katie.tietsort@ks.gov)  
Phone 785-296-5733

In response to your questions regarding collector well modeling.

James Bagley, P.E., Section Head Division of Water Resources Technical Services reviews modeling plans submitted to support groundwater and surface water appropriation applications filed for collector wells.

In general, information necessary should include:

- Proposed modeling, including construction, calibration, and sensitivity-testing.
- Modeling of the aquifer/stream system around the proposed well sufficient to identify
  - o The impacts on stream flows in the River
  - o The drawdowns at existing wells resulting from the addition of the proposed collector well
  - o Aquifer-river interaction
- Model results should include:
  - o Simulated groundwater levels for steady-state runs
  - o Simulated groundwater levels at the end of a 60-day transient model run
  - o Simulated drawdown at the end of a 60-day transient model run
  - o Water budget for the average (steady-state) and dry (transient) conditions
  - o Percentage of groundwater and surface water expected to contribute to production flow for each pumping condition simulated (i.e. average, dry)
  - o Amount of drawdown impact expected (Note that if modeling work is being completed to also show impacts to nearby wells from the operation of the collector well, the modeling needs to show the impacts at each well)

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1320 Research Park Drive  
Manhattan, Kansas 66502  
(785) 564-6700

900 SW Jackson, Room 456  
Topeka, Kansas 66612  
(785) 296-3556

Jackie McClaskey, Secretary

Governor Sam Brownback

February 6, 2017

WATER DISTRICT #1 JOHNSON CO  
7601 HOLLIDAY DRIVE  
KANSAS CITY, KS

**FILE COPY**

RE: File No. 3678

Dear Sir or Madam:

An application for approval of the Chief Engineer to change the following condition or conditions of the file number referred to above has been received:

- place of use PD
- point of diversion
- use made of water

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. You will be contacted regarding this application as soon as it has been examined.

In accordance with the provisions of the Kansas Water Appropriation Act, a portion of which is included below, the use of water prior to approval of the application is unlawful. You should not proceed and divert water as indicated by your plans in your application for a change for this file until you receive approval for this change from the Chief Engineer. 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...**

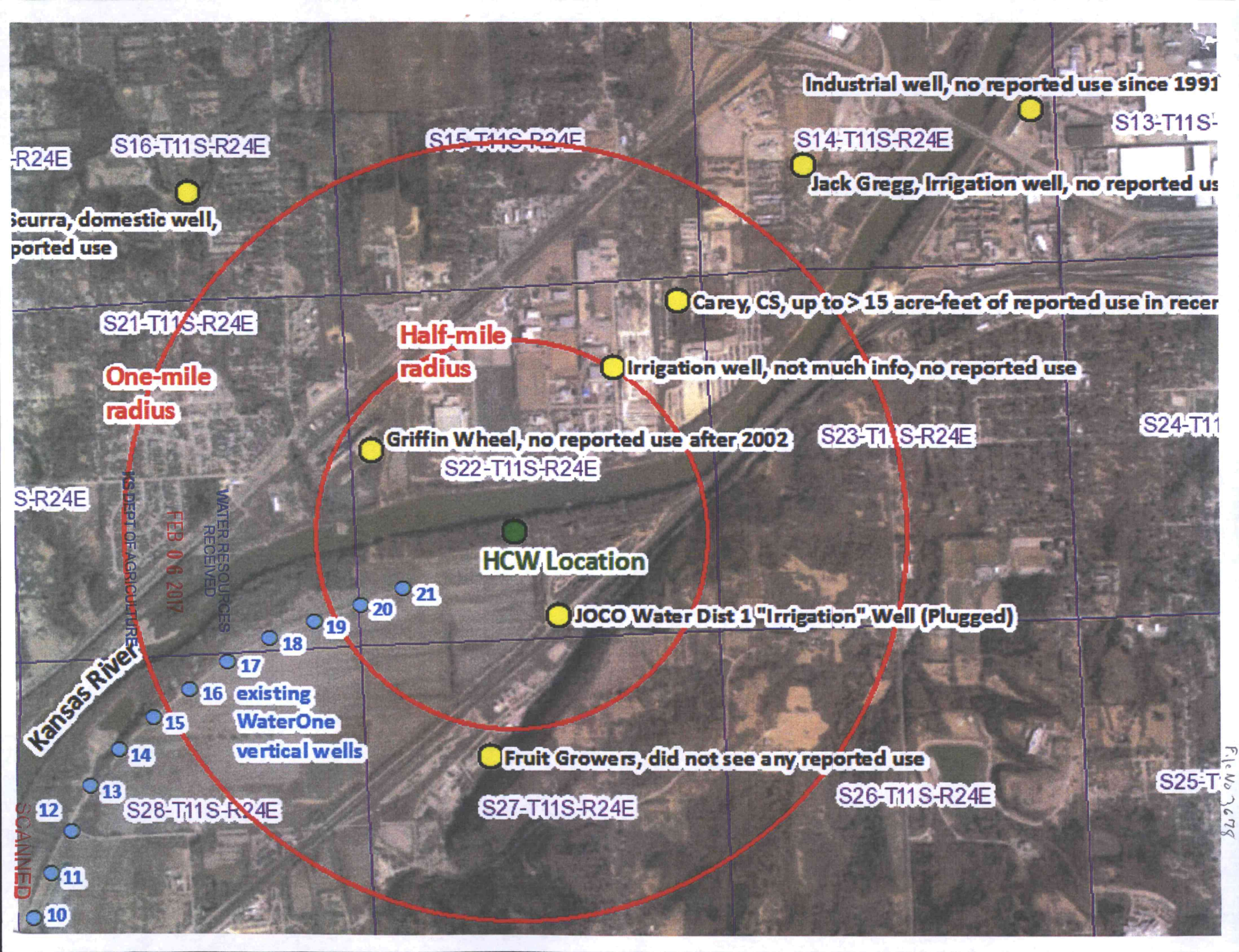
**A class C misdemeanor is punishable by a fine not to exceed \$500 and/or a term of confinement not to exceed one month in the county jail. Each day that the violation occurs constitutes a separate offense.**

If you have any questions, please contact me at (785) 564-6645. If you wish to discuss a specific file, please have the file number ready so that we may help you more efficiently.

Sincerely,

Brent A Turney, L.G.  
Change Applications Unit Supervisor  
Water Appropriation Program

BAT: dlw  
pc: TOPEKA Field Office GMD 0



Industrial well, no reported use since 1991

S13-T11S-R24E

S14-T11S-R24E

Jack Gregg, Irrigation well, no reported use

S15-T11S-R24E

S16-T11S-R24E

R24E

Scurra, domestic well, no reported use

Carey, CS, up to > 15 acre-feet of reported use in recent years

Half-mile radius

One-mile radius

Irrigation well, not much info, no reported use

S21-T11S-R24E

Griffin Wheel, no reported use after 2002

S23-T11S-R24E

S24-T11S-R24E

S22-T11S-R24E

HCW Location

JOCO Water Dist 1 "Irrigation" Well (Plugged)

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FEB 06 2017  
WATER RESOURCES RECEIVED

Kansas River

existing WaterOne vertical wells

Fruit Growers, did not see any reported use

S27-T11S-R24E

S26-T11S-R24E

S25-T11S-R24E

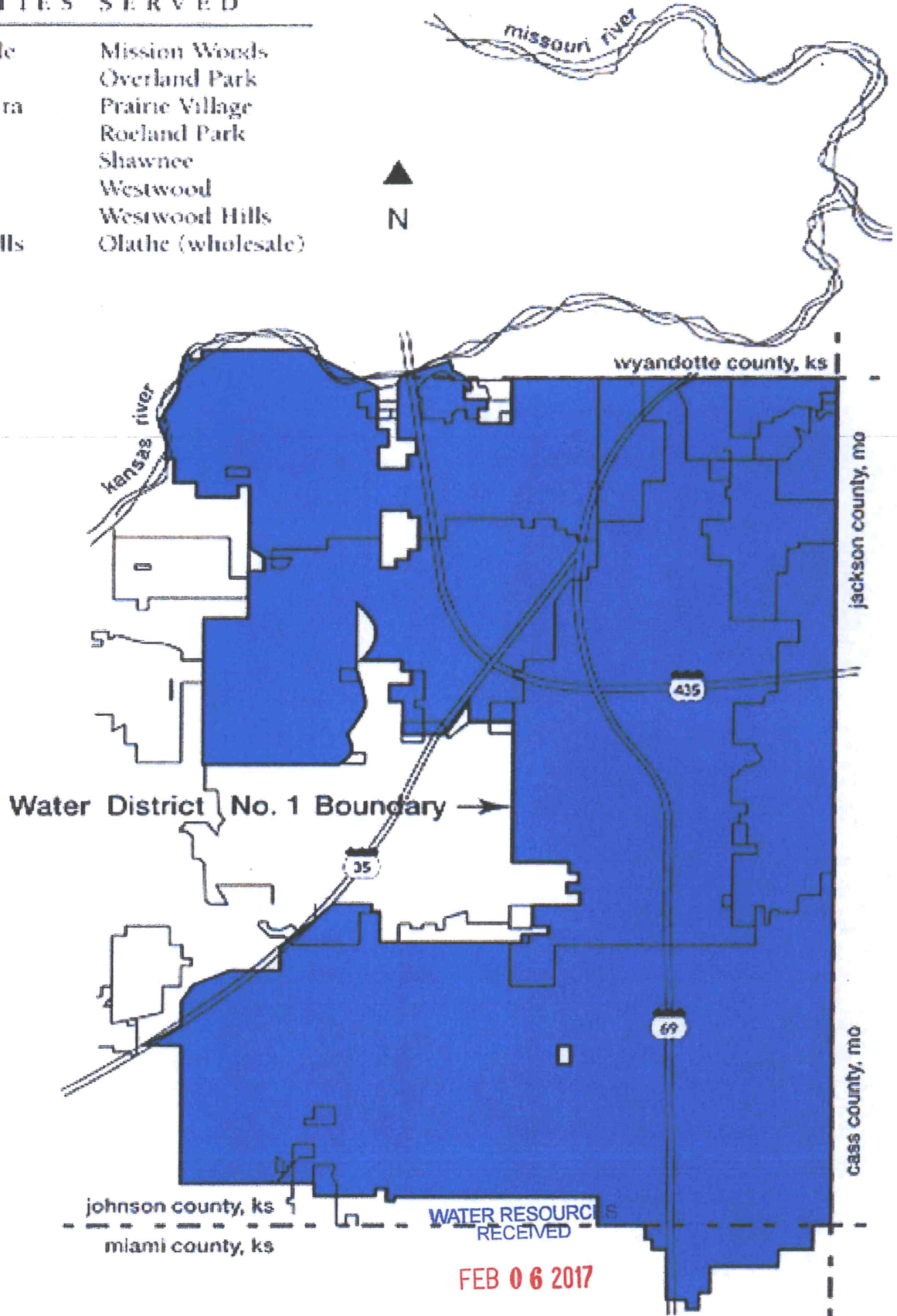
S28-T11S-R24E

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File No 3678

**CITIES SERVED**

- |               |                    |
|---------------|--------------------|
| Countryside   | Mission Woods      |
| Fairway       | Overland Park      |
| Lake Quivira  | Prairie Village    |
| Leawood       | Roeland Park       |
| Lenexa        | Shawnee            |
| Merriam       | Westwood           |
| Mission       | Westwood Hills     |
| Mission Hills | Olathe (wholesale) |



PROJECT ENGINEER INITIALS: PVF	DATE: 01/27/2017
FACILITIES ENGINEERING MANAGER INITIALS: HGB	DATE: 01/27/2017
AS-BUILT INITIALS:	DATE:

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**WaterOne**  
 Water District No.1 of Johnson County

MP-10008 KANSAS COLLECTOR WELL	
TITLE: BOUNDARY MAP	
DRAWN BY: PDC	DWG NO. 3 OF 3
DATE: 01/27/2017	

DRAWING PATH NAME:

SCANNED



## DRAFT MEMORANDUM

Water District No. 1 of Johnson County  
Kansas River Wellfield

B&V Project  
B&V File  
July 13, 2017

**Subject: Groundwater Flow Evaluation for Proposed Change of the Point of Diversion to a New Horizontal Collector Well**

### Purpose

This evaluation was performed to support the WaterOne's application to change the point of diversion of a portion of their 1955 surface water right (No. 3678) from the existing Kansas River intake and a portion of their 1955 groundwater right (No. 3677) from the existing wellfield to a new horizontal collector well (HCW) currently being installed on the Erman Property near the east end of the wellfield.

### Groundwater Model

A three-dimensional MODFLOW model of the existing Kansas River Wellfield was originally developed in the late 1990s for the purpose of evaluation aquifer yield under different climate and river conditions. The model input was based on data collected from the existing vertical wells which were originally installed in the 1950s and 1960s. In 2012, Black & Veatch refined the model using the Groundwater Modeling System (GMS) to incorporate the latest information available at the wellfield, including data collected during pumping of wells in the wellfield, new test borings, estimates of local aquifer characteristics from recent aquifer testing, and local riverbed characteristics determined by observing fluctuations of river and aquifer levels over time. Working with hydrogeologists at Layne, the model results for HCW yield under various climate and river conditions were verified using analytical methods developed by Hantush and Papadopolus in 1962.

### Simulation of 1955 Groundwater Rights

WaterOne's existing 1955 groundwater right (No. 3677) for the 21 existing vertical wells authorizes an annual quantity of 10,591 acre-feet per year (AF/yr) and a maximum rate of 11,716 gallons per

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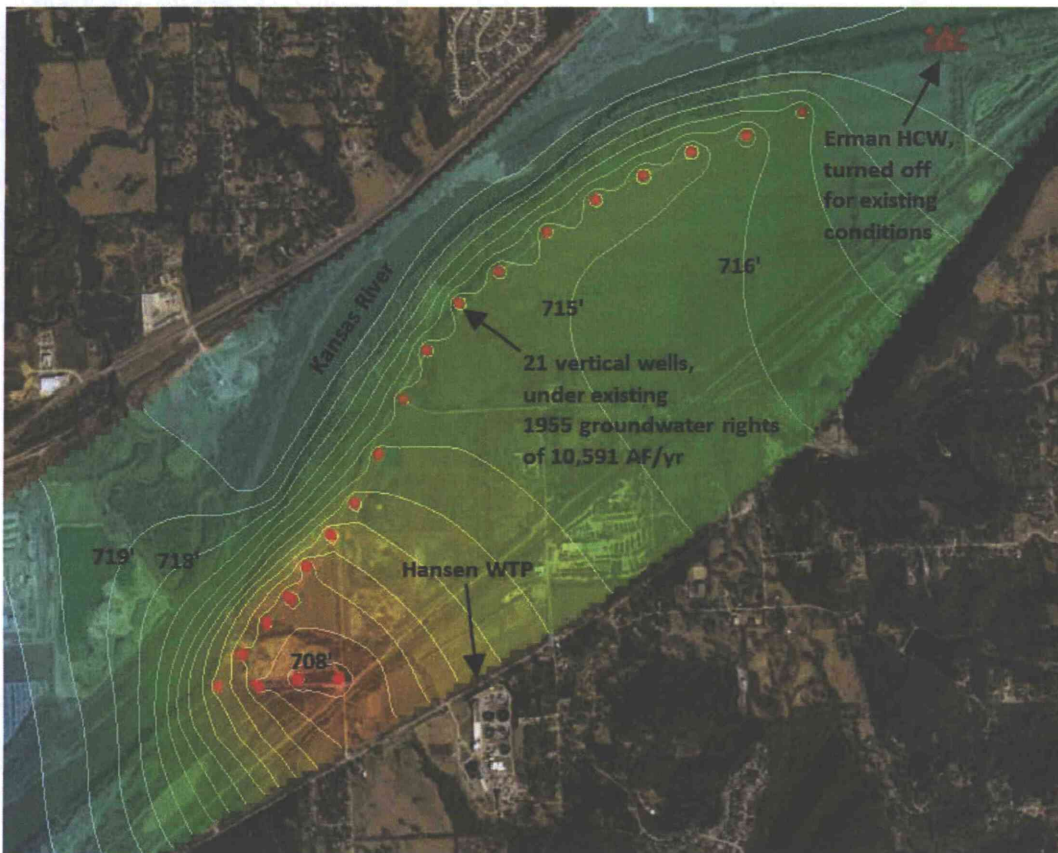
Water District No. 1 of Johnson County

B&amp;V Project

13 July 2017

Kansas River Wellfield

minute (gpm). To establish baseline average conditions, a steady-state groundwater flow analysis was performed by distributing 10,591 AF/yr across the 21 existing vertical wells. The results of this steady-state baseline conditions analysis are shown on Figure 1.



**Figure 1. Baseline Steady-State Groundwater Heads at the 1955 Authorized Quantity of 10,591 AF/yr from the 21 Existing Points of Diversion (1-foot contour intervals)**

A transient baseline conditions analysis was also performed to represent maximum well production during 60 days of dry conditions with no recharge and lower river levels. River levels were lowered by 3 feet along the wellfield based on an analysis of historical river data for dry conditions. The analysis shows that the instantaneous maximum authorized rate of 11,716 gpm is not sustainable for 60 days of very dry conditions; the total pumping rate from the wellfield was reduced to 7250 gpm in order to calculate groundwater heads on the 60<sup>th</sup> day without excessive drying of the aquifer near each well as shown on Figure 2.

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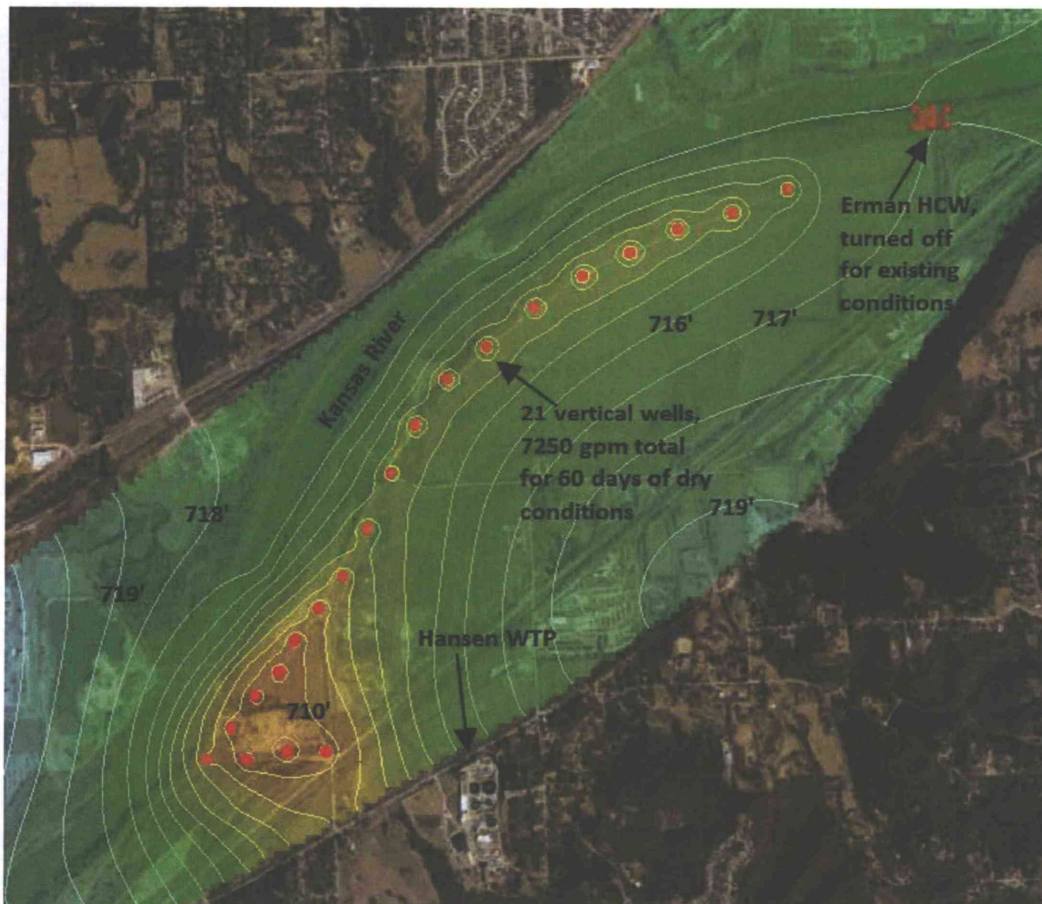


Figure 2. Baseline Transient Groundwater Heads on the 60<sup>th</sup> Day of Dry Conditions at a Total Rate of 7250 gpm from the 21 Existing Points of Diversion (1-foot contour interval)

### Steady-State Surface Water Percentage

An analysis was performed for steady-state average conditions by pumping the HCW at the proposed annual quantity of 5524 AF/yr. To specifically evaluate the influence of the HCW on the river and aquifer for this analysis, other wells in the area were shut off. A zonal water budget analysis, summarized on Figure 3, was performed to determine the percentage of surface water that will be induced from the Kansas River to the new HCW. The analysis indicates 87 percent of the water produced by the HCW under steady-state conditions will be induced from the Kansas River.

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Flow Budget for Zone 2

IN:	ft3/day	OUT:	ft3/day	Net:	ft3/day	MGD
CONSTANT HEAD	18,419.05	CONSTANT HEAD	-36,366.11	CONSTANT HEAD	-17,947.06	-0.1343
WELL	0.00	WELL	-659,243.41	WELL	-659,243.41	-4.9318
RIVER LEAKAGE	602,044.80	RIVER LEAKAGE	-28,358.81	RIVER LEAKAGE	573,685.98	4.2917
RECHARGE	30,975.70	RECHARGE	0.00	RECHARGE	30,975.70	0.2317
Zone 1 to zone 2	80,223.34	Zone 2 to zone 1	-7,697.14	Zone 1 to zone 2	72,526.20	0.5426

Percentage Induced KS River Water

87%



Figure 3. Steady-State Water Budget and Percentage of Surface Water Induced by New HCW

### Transient Surface Water Percentage

A transient groundwater analysis was performed by pumping the new HCW at a maximum proposed rate of 5.5 million gallons per day (MGD) for 60-days of dry conditions. A zonal water budget analysis, summarized on Figure 4, was performed to determine the percentage of surface water that will be induced from the Kansas River to the new HCW. The analysis indicates 87 percent of the water produced by the HCW under transient, dry conditions will be induced from the Kansas River, which is the same percentage of surface water determined by the steady-state analysis.

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Flow Budget for Zone 2 at 60th Day of Simulation

IN:	ft3/day	OUT:	ft3/day	Net:	ft3/day	MGD
STORAGE	111510.3203	STORAGE	-0.02734375	STORAGE	111,510.29	0.8342
CONSTANT HEAD	9784.651367	CONSTANT HEAD	-69564.17651	CONSTANT HEAD	-59,779.53	-0.4472
WELL	0	WELL	-735195.8281	WELL	-735,195.83	-5.5000
RIVER LEAKAGE	686666.4893	RIVER LEAKAGE	-45261.18601	RIVER LEAKAGE	641,405.30	4.7984
RECHARGE	0	RECHARGE	0	RECHARGE	0.00	0.0000
Zone 1 to zone 2	75921.43818	Zone 2 to zone 1	-33866.81931	Zone 1 to zone 2	42,054.62	0.3146

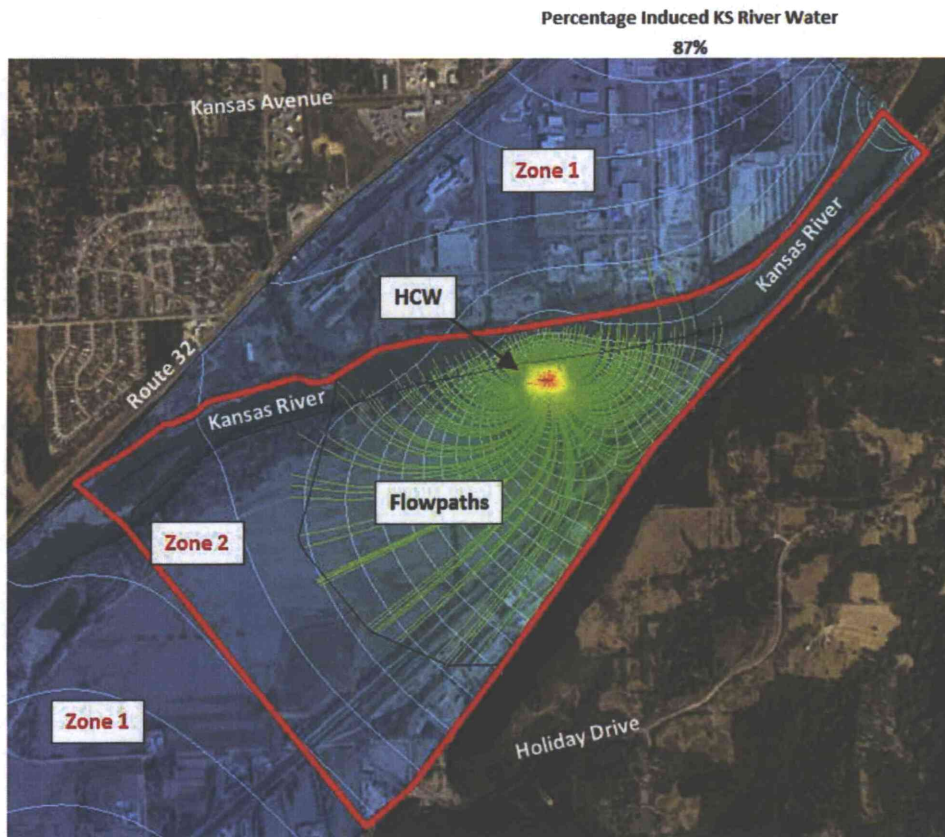


Figure 4. Transient Water Budget and Percentage of Surface Water Induced by New HCW during 60 Days of Dry Conditions

### Proposed Steady-State Conditions

The application for changing the point of diversion to the new HCW indicates Well 18 (4<sup>th</sup> well from the east) will be removed from service, with the remaining 20 vertical wells left in place. The water budget analysis indicates 87 percent of the water produced by the new HCW will be surface water; the remaining 13 percent of the average annual quantity of 5524 AF/yr (718.12 AF/yr), produced by the HCW is groundwater. Transferring 718.12 AF/yr of the 1955 authorized quantity

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Kansas River Wellfield

of 10,591 AF/yr from the vertical wells to the HCW leaves 9872.88 AF/yr for the 20 vertical wells that will remain in service. Figure 5 shows the proposed steady-state groundwater heads when pumping the HCW at 5524 AF/yr and pumping the 20 vertical wells at 9872.88 AF/yr. Figure 6 shows the change in groundwater levels from the steady-state baseline conditions, indicating steady-state groundwater levels will rise by more than 4 feet near Well 18 because it will be taken out of service, and will decline by nearly 9 feet near the HCW caisson. Known wells in the area are shown on the figure.

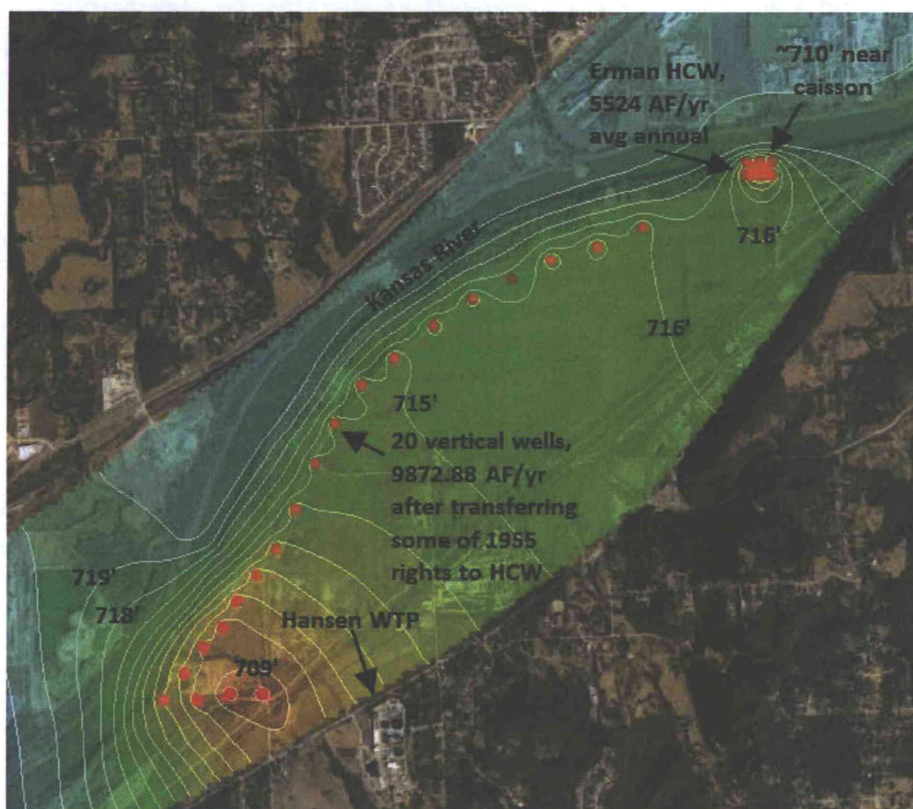


Figure 5. Proposed Steady-State Groundwater Heads (1-foot contour interval)

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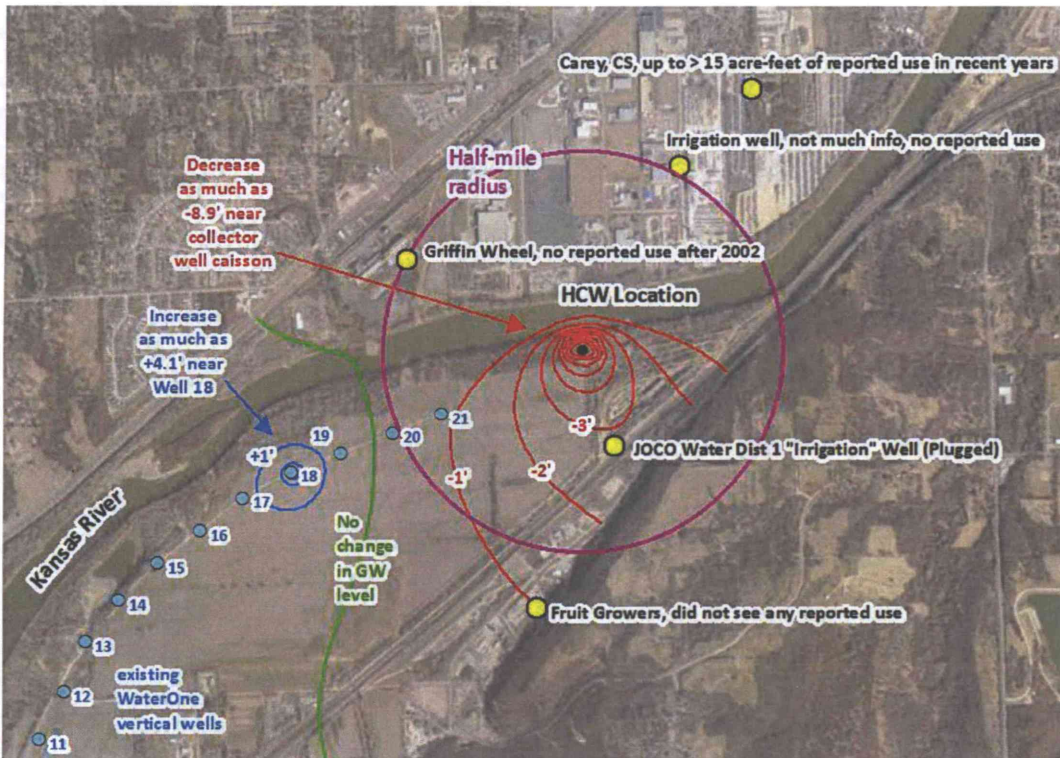


Figure 6. Proposed Changes to Groundwater Levels under Steady-State Conditions

### Proposed Transient Conditions

Figure 7 shows the resulting transient groundwater heads on the 60<sup>th</sup> day of dry conditions when pumping the HCW at a rate of 5.5 MGD and pumping the existing vertical well at the same rates as the baseline transient analysis described above, but shutting Well 18 off, as it will be removed from service. Figure 8 shows the change in transient groundwater levels from baseline on the 60<sup>th</sup> day of the analysis, indicating transient groundwater levels will rise by more than 5 feet near Well 18 because it is will be taken out of service, and will decline by 11 feet near the HCW caisson. Known wells in the area are shown on the figure.

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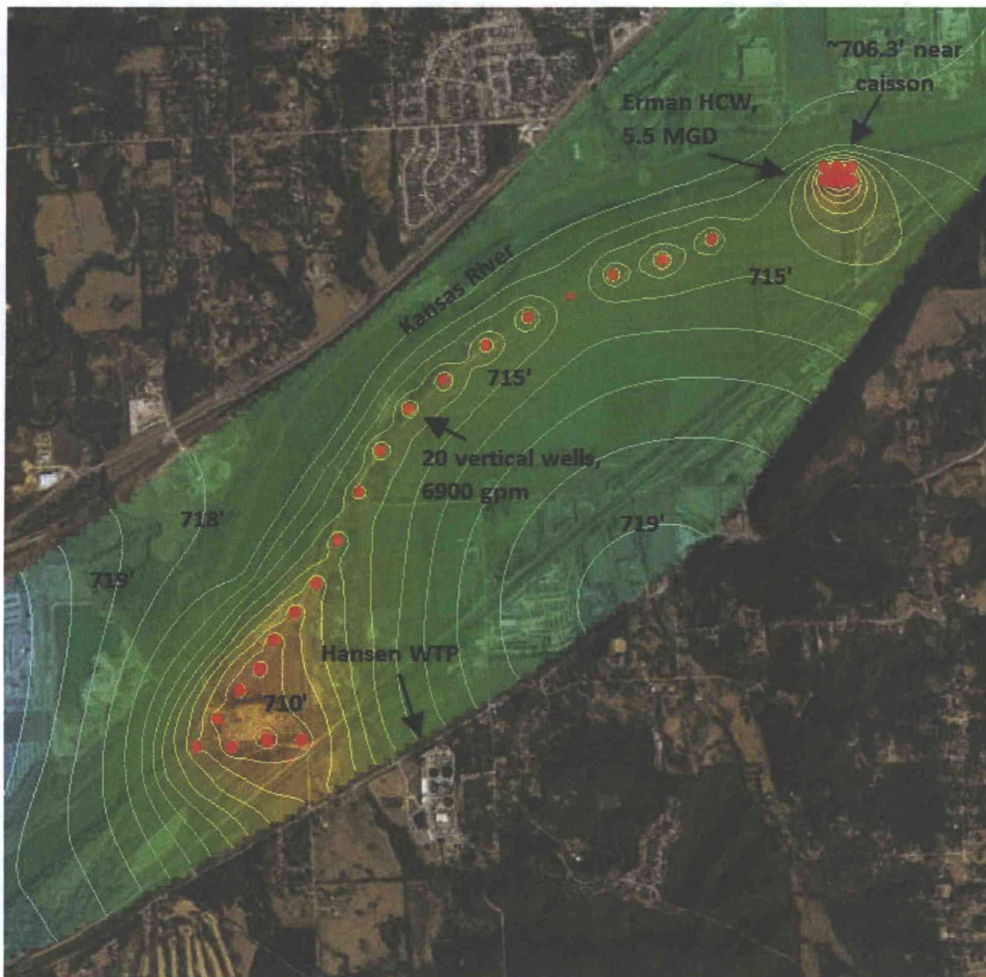


Figure 7. Proposed Transient Groundwater Heads on the 60<sup>th</sup> Day of Dry Conditions (1-foot contour interval)

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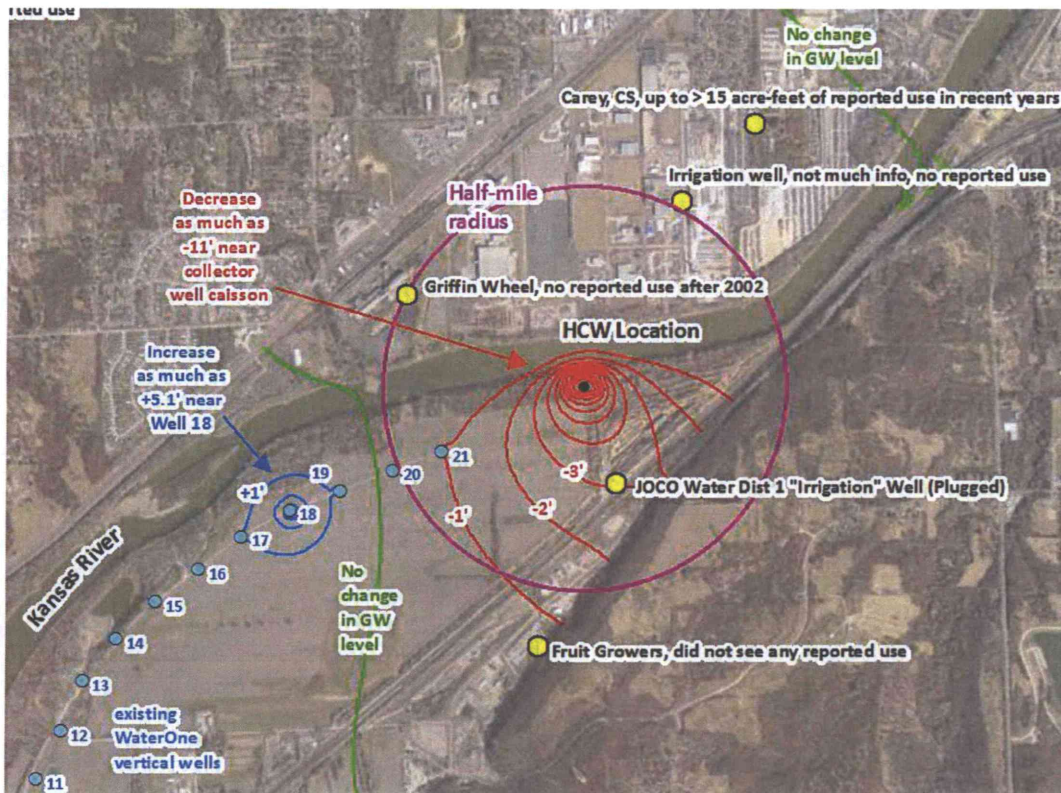


Figure 8. Proposed Changes to Transient Groundwater Levels on the 60<sup>th</sup> Day of Dry Conditions

### Effect on Kansas River Flow

The historical median Kansas River flow from 1917 – 2017 at the Desoto gage is 3320 cubic feet per second (cfs). Since 1970, the median has been 3790 cfs. The analysis above indicates the amount of water induced from the river by the HCW under steady-state conditions is 87 percent of 5524 AF/yr, or 4805.88 AF/yr. This is equal to approximately 6.64 cfs, or about 0.2 percent of the historical median river flow at Desoto. This will be offset by the transfer of surface water rights from the upstream intake.

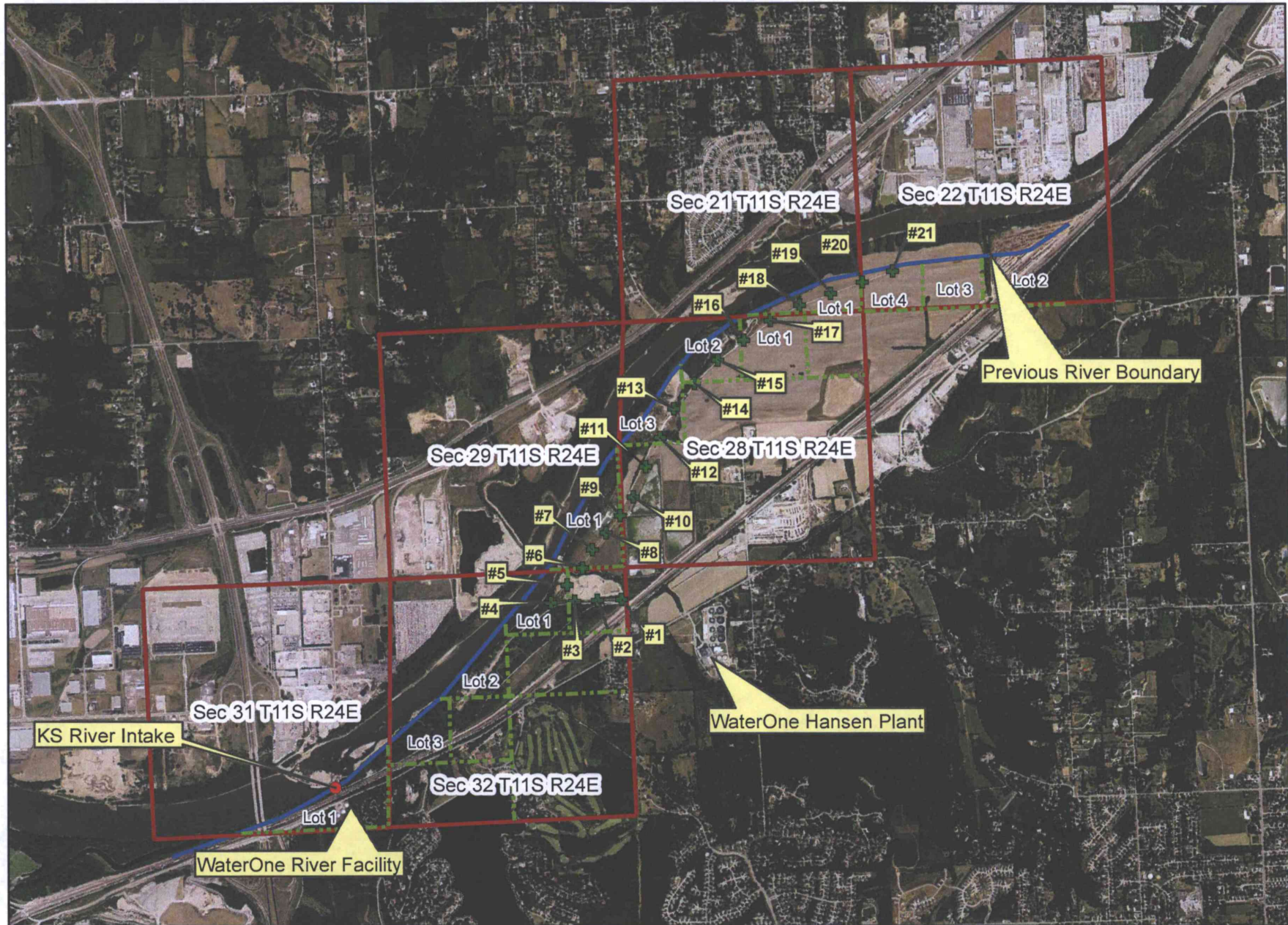
During the warmer months (Apr – Oct) of the drought year of 1989, the minimum 60-day running average river flow was approximately 896 cfs. The 60-day dry conditions transient groundwater analysis indicates the HCW will induce 87 percent of its maximum proposed 5.5 MGD production rate, or 4.785 MGD, from the river. This is equal to approximately 7.4 cfs, or 0.8 percent of the minimum 60-day running average river flow during the dry conditions of 1989. This will be offset by the transfer of surface water rights from the upstream intake.

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WaterOne  
 File Nos. 3,677; 3,678; 18,180 & 47,083

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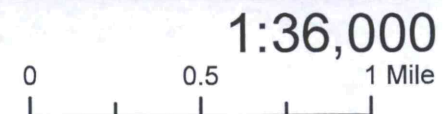
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JUL 07 2017

KS DEPT OF AGRICULTURE

+ Well Location (Labeled by Well #)

Map prepared by LHH/TFO 7-6-17





APPLICATION TO CHANGE THE POINT OF DIVERSION UNDER FILE NO. 3678

REQUESTED POINT OF DIVERSION UNDER THIS CHANGE.

1/2 MILE RADIUS

R 24 E

1577.6'

3125.4'

HORIZONTAL COLLECTOR WELL

PRESENTLY AUTHORIZED POINT OF DIVERSION TO BE MODIFIED BY THIS CHANGE.

KANSAS RIVER WELLFIELD

KANSAS RIVER INTAKE

T 11 S

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FEB 0 6 2017

KS DEPT OF AGRICULTURE  
WYANDOTTE CO  
JOHNSON CO

PROJECT ENGINEER INITIALS: PWF	DATE: 01/27/2017
FACILITIES ENGINEERING MANAGER INITIALS: HGB	DATE: 01/27/2017
AS-BUILT INITIALS:	DATE:

**WaterOne**  
Water District No. 1 of Johnson County

PROJECT MP-10008 KANSAS COLLECTOR WELL	TITLE: 3678 WATER RIGHTS
DRAWN BY: PDC	DWG NO. 2 OF 3
DATE: 01/27/2017	

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