

**WATER WELL RECORD**

**Form WWC-5**

Division of Water  
Resources App. No.

Well ID

**MW6**

Original Record  Correction  Change in Well Use

<p><b>1 LOCATION OF WATER WELL:</b> County <u>Doniphan</u></p>	<p>Fraction SE ¼ SW ¼ NW ¼ NE ¼</p>	<p>Section Number <u>31</u></p>	<p>Township Number T <u>3</u> S</p>	<p>Range Number R <u>23</u> E <input checked="" type="checkbox"/> W</p>									
<p><b>2 WELL OWNER:</b> Last Name: _____ First: _____ Business: <u>Affiliated Foods Midwest Coop Inc.</u> Address: <u>1301 Omaha Ave.,</u> Address: _____ City <u>Norfolk</u> State: <u>NE</u> ZIP: <u>68701</u></p>	<p>Street or Rural Address where well is located (if unknown, distance and direction from nearest town or intersection): If at owner's address, check here: <input type="checkbox"/> <u>1301 Oak Street, Elwood, KS</u></p>												
<p><b>3 LOCATE WELL WITH "X" IN SECTION BOX:</b></p> <div style="text-align: center;"> <p>N</p> <table border="1" style="margin: auto;"> <tr> <td style="width: 20px; text-align: center;">X</td> <td style="width: 40px; text-align: center;">NW</td> <td style="width: 40px; text-align: center;">NE</td> </tr> <tr> <td style="width: 20px; text-align: center;">W</td> <td style="width: 40px; text-align: center;"> </td> <td style="width: 40px; text-align: center;">E</td> </tr> <tr> <td style="width: 20px; text-align: center;"> </td> <td style="width: 40px; text-align: center;">SW</td> <td style="width: 40px; text-align: center;">SE</td> </tr> </table> <p>S</p> <p style="text-align: center;">1 mile</p> </div>	X	NW	NE	W		E		SW	SE	<p><b>4 DEPTH OF COMPLETED WELL:</b> <u>20</u> ft Depth(s) Groundwater Encountered: 1) _____ ft 2) _____ ft 3) _____ ft, or 4) <input type="checkbox"/> Dry Well WELL'S STATIC WATER LEVEL: <u>15.92</u> ft. <input checked="" type="checkbox"/> below land surface, measured on (mo-day-yr) <u>1/31/18</u> <input type="checkbox"/> above land surface, measured on (mo-day-yr) _____ Pump test data: Well water was _____ ft after _____ hours pumping _____ gpm Water well was _____ ft after _____ hours pumping _____ gpm Estimated Yield: _____ gpm Bore Hole Diameter: <u>7.25</u> in to _____ ft, and _____ in to _____ ft</p>	<p><b>5 Latitude:</b> <u>39.75226</u> (decimal degrees) <b>Longitude</b> <u>94.88724</u> (decimal degrees) Horizontal Datum: <input type="checkbox"/> WGS 84 <input type="checkbox"/> NAD 83 <input checked="" type="checkbox"/> NAD 27 Source for Latitude/Longitude: _____ <input type="checkbox"/> GPS (unit make/model: _____) (WAAS enabled? <input type="checkbox"/> Yes <input type="checkbox"/> No) <input checked="" type="checkbox"/> Land Survey <input type="checkbox"/> Topographic Map <input type="checkbox"/> Online Mapper</p>		
X	NW	NE											
W		E											
	SW	SE											
<p><b>6 Elevation</b> <u>817.12</u> ft <input type="checkbox"/> Ground Level <input checked="" type="checkbox"/> TOC Source <input checked="" type="checkbox"/> Land Survey <input type="checkbox"/> GPS <input type="checkbox"/> Topographic Map <input type="checkbox"/> Other _____</p>													

**7 WELL WATER TO BE USED AS:**

<p>1 Domestic: <input type="checkbox"/> Household <input type="checkbox"/> Lawn &amp; Garden <input type="checkbox"/> Livestock 2 Irrigation 3 Feedlot 4 Industrial</p>	<p>5 <input type="checkbox"/> Public Water Supply: well ID 6 <input type="checkbox"/> Dewatering: how many wells? 7 <input type="checkbox"/> Aquifer Recharge: well ID 8 <input checked="" type="checkbox"/> Monitoring: well ID <b>MW6</b> 9 Environmental Remediation: well ID <input type="checkbox"/> Air Sparge <input type="checkbox"/> Soil Vapor Extractor <input type="checkbox"/> Recovery <input type="checkbox"/> Injection</p>	<p>10 <input type="checkbox"/> Oil Field Water Supply: lease _____ 11 Test Hole: well ID _____ <input type="checkbox"/> Cased <input type="checkbox"/> Uncased <input type="checkbox"/> Geotechnical 12 Geothermal: How many bores? a) Closed Loop <input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical b) Open Loop <input type="checkbox"/> Surface Discharge <input type="checkbox"/> Inj. of Water <input type="checkbox"/> Other (specify): _____</p>
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Was a chemical/bacteriological sample submitted to KDHE?  Yes  No If yes, date sample was submitted: \_\_\_\_\_  
Water well disinfected?  Yes  No

**8 TYPE OF CASING USED:**  Steel  PVC  Other \_\_\_\_\_ CASING JOINTS:  Glued  Clamped  Welded  Threaded  
Casing diameter 2 in. to 10 ft, Diameter \_\_\_\_\_ in. to \_\_\_\_\_ ft, Diameter \_\_\_\_\_ in. to \_\_\_\_\_ ft,  
Casing height above land surface -0.37 in. Weight \_\_\_\_\_ lbs./ft. Well thickness or gauge No \_\_\_\_\_

TYPE OF SCREEN OR PERFORATION MATERIAL:  
 Steel  Stainless Steel  Fiberglass  PVC  Other (Specify) \_\_\_\_\_  
 Brass  Galvanized Steel  Concrete tile  None used (open hole)

SCREEN OR PERFORATION OPENINGS ARE:  
 Continuous Slot  Mill Slot  Gauze Wrapped  Torch Cut  Drilled Holes  Other (Specify) \_\_\_\_\_  
 Louvered Shutter  Key Punched  Wire Wrapped  Saw Cut  None (Open Hole)

SCREEN-PERFORATED INTERVALS: From 10 ft. to 20 ft, From \_\_\_\_\_ ft. to \_\_\_\_\_ ft, From \_\_\_\_\_ ft. to \_\_\_\_\_ ft,  
GRAVEL PACK INTERVALS: From 8 ft. to 20 ft, From \_\_\_\_\_ ft. to \_\_\_\_\_ ft, From \_\_\_\_\_ ft. to \_\_\_\_\_ ft,

**9 GROUT MATERIAL:**  Neat cement  Cement grout  Bentonite  Other Concrete: 0-1'  
Grout intervals: From 1 ft. to 8 ft, From \_\_\_\_\_ ft. to \_\_\_\_\_ ft, From \_\_\_\_\_ ft. to \_\_\_\_\_ ft,

**Nearest source of possible contamination:**

<input type="checkbox"/> Septic Tank	<input type="checkbox"/> Lateral Lines	<input type="checkbox"/> Pit Privy	<input type="checkbox"/> Livestock Pens	<input type="checkbox"/> Insecticide Storage
<input type="checkbox"/> Sewer Lines	<input type="checkbox"/> Cess Pool	<input type="checkbox"/> Sewage Lagoon	<input checked="" type="checkbox"/> Fuel Storage	<input type="checkbox"/> Abandoned Water Well
<input type="checkbox"/> Watertight Sewer Lines	<input type="checkbox"/> Seepage Pit	<input type="checkbox"/> Feedyard	<input type="checkbox"/> Fertilizer Storage	<input type="checkbox"/> Oil Well / Gas Well
<input type="checkbox"/> Other (Specify) _____				

Direction from well? E Distance from well? ~20 ft

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	0.7	Concrete			
0.7	1.5	Silty clay			
1.5	12.5	Silt and fine sand			
12.5	20	Silt w/ clay			

Notes: KDHE ID: Affiliated Carriers, Inc.; A4-022-40480  
Target of monitoring well is shallow groundwater, <20' of grout was installed at the direction of KDHE.

**11 CONTRACTOR'S OR LANDOWNER'S CERTIFICATION:** This water well was  constructed,  reconstructed, or  plugged under my jurisdiction and was completed on (mo-day-year) 1/29/18 and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. 757 This Water Well Record was completed on (mo-day-year) 2/22/18 under the business name of Larsen & Associates, Inc. Signature \_\_\_\_\_

**DENNIS L HANDKE**

1820 NW 59th Terrace  
TOPEKA, KANSAS 66618  
785-286-4047 Home  
785-286-1990 Fax

Jessica Chapman  
Larsen & Associates  
1311 E. 25<sup>th</sup> Street, Suite B  
Lawrence, Kansas, 66046

February 17, 2018

RE: Monitor Well Elevation Survey  
1301 Oak Street, Elwood, Kansas

Proj. 18-00D  
Affiliated Carriers, Inc  
A4-022-40480

Bench Mark: Square cut on South edge of concrete light base South of guard shack.  
Elev: 817.63 North 4060 East 543 (from SW Cor. Sec. 31-3-23E)

MW-1	rim	815.48	North	4051	SE1/4,SW1/4,NW1/4,NW1/4
	top pipe	815.14	East	489	Lat= 39.75193 Long = 94.88703
MW-2	rim	817.08	North	4256	SE1/4,SW1/4,NW1/4,NW1/4
	top pipe	816.78	East	469	Lat= 39.75249 Long = 94.88711
MW-3	rim	816.48	North	4139	SE1/4,SW1/4,NW1/4,NW1/4
	top pipe	816.12	East	536	Lat= 39.75217 Long = 94.88687
MW-4	rim	816.98	North	4341	NE1/4,SW1/4,NW1/4,NW1/4
	top pipe	816.68	East	422	Lat= 39.75272 Long = 94.88728
MW-5	rim	816.72	North	4050	SE1/4,SW1/4,NW1/4,NW1/4
	top pipe	816.42	East	585	Lat= 39.75193 Long = 94.88669
MW-6	rim	817.49	North	4171	SE1/4,SW1/4,NW1/4,NW1/4
	top pipe	817.12	East	432	Lat= 39.75226 Long = 94.88724

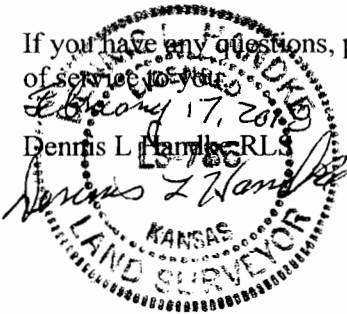
There is no SE corner of Section 31. The corner fell into the Missouri River in 1856 when the sections were laid out. Therefore everything is calculated from the SW corner of Section 31.

Lat & Long derived from Wathena 7.5' quad map. NAVD 27

Elevation established from USGS BM N 106.

If you have any questions, please feel free to call me. Thank you for the opportunity to be of service to you.

February 17, 2018  
Dennis L Handke RLS



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MAR 26 2018

BUREAU OF WATER

NOTE: Figures exhibited within this report are only to be used within the context of this report. Placement of property lines, wells, structures, and roads is based on the available information from county appraiser maps, surveys, site visits, and/or previous vendor reports and should be considered approximate.

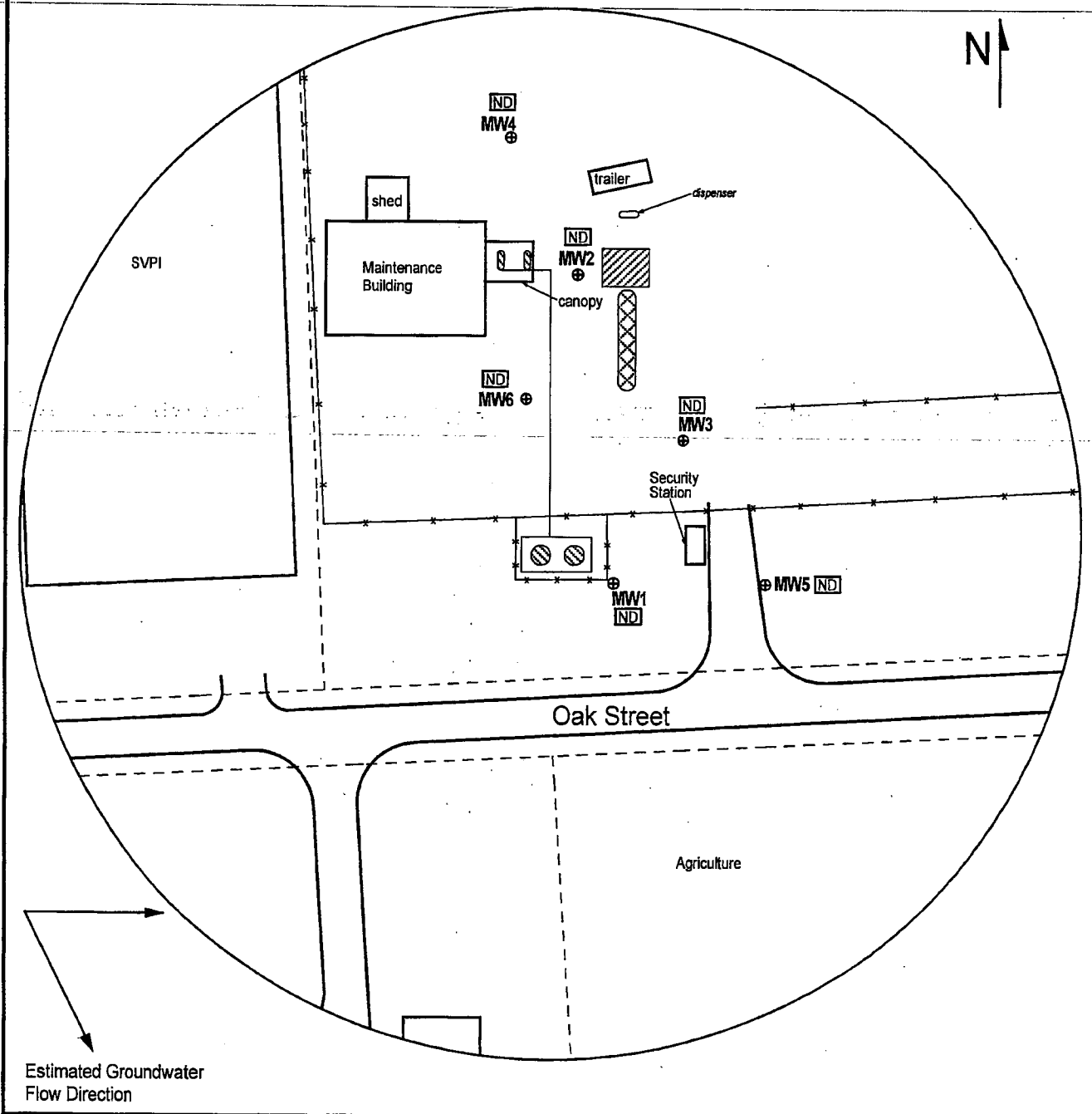
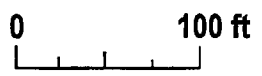


FIGURE 5.1 - GROUNDWATER ISOCONCENTRATION MAP: TOTAL BTEX IN WELLS

- LEGEND:**
- Possible Location of Former UST Basin
  - Location of Active Diesel ASTs, Product Lines and Pump Island
  - Approximate Location of Former AST Containing Water
  - Approximate Location of Property Line
  - Monitoring Well (Installed 1/29-30/18)
  - Total BTEX Concentration (ppb)



**PROJECT:**  
 Affiliated Carriers, Inc.  
 1301 Oak Street  
 Elwood, KS  
 KDHE ID: A4-022-40480  
 Date: 1/31/18



1311 E 25th St., Suite B (785) 841-8707 office  
 Lawrence, KS 66046 (785) 865-4282 fax