

WATER WELL RECORD Form WWC-5

Division of Water Resources App. No.

Well ID MW-9

Original Record Correction Change in Well Use

1 LOCATION OF WATER WELL: County: Morton	Fraction SW ¼ NW ¼ SW ¼ NW ¼	Section Number 1	Township Number T 34 S	Range Number R 40 <input type="checkbox"/> E <input checked="" type="checkbox"/> W
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2 WELL OWNER: Last Name: Elkhart Coop Business: Elkhart Coop Address: P.O. Box 210 Address: City: Elkhart State: KS ZIP: 67950	First: 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"/> Approx. 308' ESE of the SE corner of the intersection of Hwy 56 and Hwy 51/CR24, Rola
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3 LOCATE WELL WITH "X" IN SECTION BOX:

N

X - NW - -	NE - -
SW - -	SE - -

S

----- 1 mile -----

4 DEPTH OF COMPLETED WELL: **141** ft.

Depth(s) Groundwater Encountered: 1) ft.
 2) ft. 3) ft., or 4) Dry Well

WELL'S STATIC WATER LEVEL: **113.80** ft.

below land surface, measured on (mo-day-yr) **11-29-16**
 above land surface, measured on (mo-day-yr)

Pump test data: Well water was ft.
 after hours pumping gpm
 Well water was ft.
 after hours pumping gpm

Estimated Yield: gpm
 Bore Hole Diameter: **8.5** in. to ft. and
 in. to ft.

5 Latitude: **37.1219094N** (decimal degrees)
Longitude: **101.6267295W** (decimal degrees)
Horizontal Datum: WGS 84 NAD 83 NAD 27
Source for Latitude/Longitude:
 GPS (unit make/model: **EPOCH**)
 (WAAS enabled? Yes No)
 Land Survey Topographic Map
 Online Mapper:

6 Elevation: **3308.41** ft. Ground Level TOC
Source: Land Survey GPS Topographic Map
 Other

7 WELL WATER TO BE USED AS:

1. Domestic: <input type="checkbox"/> Household <input type="checkbox"/> Lawn & Garden <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Feedlot <input type="checkbox"/> Industrial	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 MW-9 9. Environmental Remediation: well ID <input type="checkbox"/> Air Sparge <input type="checkbox"/> Soil Vapor Extraction <input type="checkbox"/> Recovery <input type="checkbox"/> Injection	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 13. <input type="checkbox"/> Other (specify):
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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 **4** in. to **111** ft., Diameter in. to ft., Diameter in. to ft.
 Casing height above land surface **-3.8** in. Weight lbs./ft. Wall thickness or gauge No. **Sch 40**

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 **111** ft. to **141** ft., From ft. to ft., From ft. to ft.
 GRAVEL PACK INTERVALS: From **104** ft. to **141** ft., From ft. to ft., From ft. to ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other **concrete 0-1ft**

Grout Intervals: From **1** ft. to **104** ft., From ft. to ft., From ft. to ft.

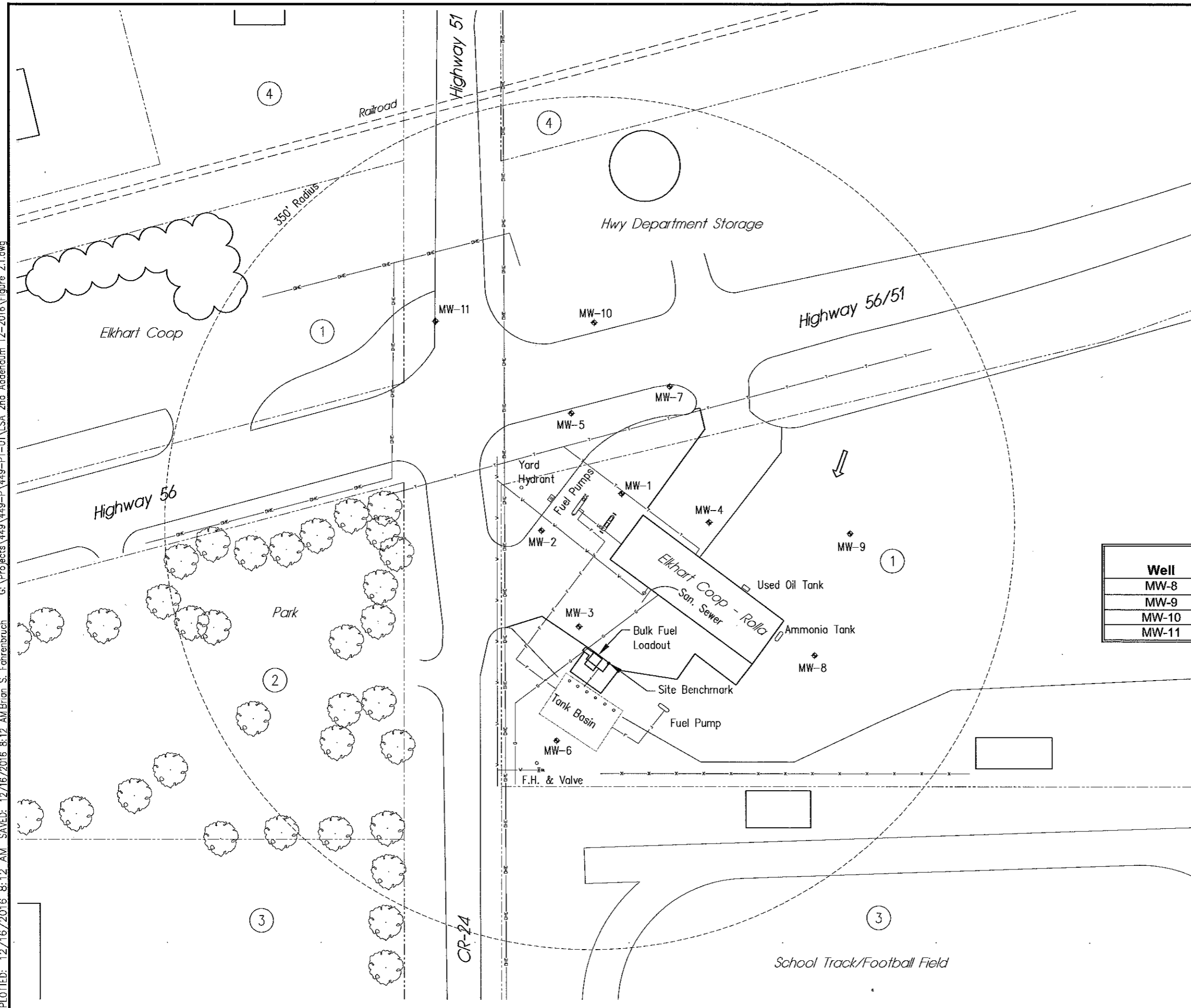
Nearest source of possible contamination:
 Septic Tank Lateral Lines Pit Privy Livestock Pens Insecticide Storage
 Sewer Lines Cess Pool Sewage Lagoon Fuel Storage Abandoned Water Well
 Watertight Sewer Lines Seepage Pit Feedyard Fertilizer Storage Oil Well/Gas Well
 Other (Specify)

Direction from well? Distance from well? ft.

10 FROM	TO	LITHOLOGIC LOG	FROM	TO	LITHO. LOG (cont.) or PLUGGING INTERVALS
0	0.5	Gravel			
0.5	20	Sandy Clay			
20	38	Sand			
38	54	Sand with gravel, trace cobbles, and clay			
54	142	Silty Clay with caliche, sand, some gravel			
Notes:					

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) **11-17-16** and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **881** This Water Well Record was completed on (mo-day-year) **12-20-16** under the business name of **Wopler Pump & Well** Signature *[Signature]*

PLOTTED: 12/16/2016 8:12 AM. G:\Projects\449\449-P1-01\USA 2nd Addendum 12-2016\Figure 2.1.dwg



LEGEND

- = MONITOR WELL
- = PRODUCT LINES
- = UNDERGROUND GAS
- = UNDERGROUND WATER
- = OVERHEAD ELECTRIC
- = SANITARY SEWER
- = FENCE
- = FORMER TANK BASIN
- = APPROXIMATE ROW LINES
- = GROUNDWATER FLOW DIRECTION

1. ELKHART COOPERATIVE EQUITY EXCHANGE
2. CITY OF ROLLA
3. SCHOOL DISTRICT #217 #5
4. SANTA FE RAILROAD PROPERTY TAX DEPT.

Site Benchmark
 Conc. Nail in NE Corner
 of Conc. Pad
 Elev. 3310.216

NOTE:
 PRODUCT, WATER AND SEWER LINES
 WERE NOT MARKED ON SITE,
 ESTIMATED LOCATIONS ARE PROVIDED.

Well	Latitude	Longitude
MW-8	37.1216347	101.6268294
MW-9	37.1219094	101.6267295
MW-10	37.1223841	101.6274551
MW-11	37.1223862	101.6279027

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 JAN 03 2017
 BUREAU OF WATER

N

0 40 80 160
 SCALE IN FEET

<p>MILCO Environmental Services, Inc. <small>Kearney, NE (308) 237-5923 McCook, NE (308) 345-4741</small></p>	<p>REVISIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; height: 20px;"> </td> <td style="width: 50%; height: 20px;"> </td> </tr> <tr> <td style="width: 50%; height: 20px;"> </td> <td style="width: 50%; height: 20px;"> </td> </tr> </table>				
<p>ELKHART COOP - ROLLA SITE BASE MAP - 350' RADIUS HWY 56 & 51/2699 - ROLLA, KANSAS U1-065-14375</p>					
<p><small>This document and the ideas and designs incorporated herein, are the property of MILCO and are to be used in whole or in part, for any other project without the written authorization of MILCO.</small></p>					
<p>SCALE: AS SHOWN PROJECT NO. M449-P1-01 DATE: DECEMBER, 2016 FIELD BOOK M&A DWG NO. DRAWN BY: BSF SHEET</p>					
<p>FIGURE 2.1</p>					



MILCO

Environmental Services, Inc.

320 West 4th Street
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Fax: 785-460-4220
www.milcoinc.com

December 28, 2016

Kansas Department of Health and Environment
Bureau of Water, Geology Section
1000 SW Jackson St, Ste 420
Topeka, KS 66612-1367

Re: Elkhart Coop-Rolla, Rolla
KDHE Project Code U1-065-14375
MILCO Project No. M449-P1-01

To Bureau of Water, Geology Section:

Enclosed, please find 4 Form WWC-5s for wells MW-8, MW-9, MW-10, and MW-11 at the Elkhart Coop site in Rolla, Kansas along with payment of \$5.00 for each, totaling \$20.00. A map showing locations and latitude/longitude data for the 4 wells is included.

If you have any questions or need additional information, please do not hesitate to contact us.

Respectfully submitted,
MILCO Environmental Services, Inc.



Kathy Wheelbarger
Office Assistant

Enclosures

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JAN 03 2017

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