

County: Shawnee Fraction: NE SW SE SE Sec. 31 T. 11 S R. 16 E

CORRECTION(S) to WATER WELL COMPLETION RECORD Form WWC-5 (to rectify lacking or incorrect information)

Owner: KDHE KSMW 1

If location corrected, was listed as:

Section-Township-Range: 30-22-16E

Fraction (1/4 calls): SE NW SE NE

Location changed to:

31-11-16e

NE SW SE SE

Other changes: Initial statements: _____

Changed to: _____

Comments: _____

Verification method: Used site map provided by driller, KGS mapper, Lat/Long, and address to verify S-T-R

Initials: SH Date: 11-10-2022

Submitted by: Kansas Geological Survey, Data Resources Library, 1930 Constant Ave., Lawrence, KS 66047-3724
 Kansas Dept. of Health & Environment, Bureau of Water, 1000 SW Jackson, Suite 420, Topeka, KS 66612-1367

WATER WELL RECORD Form WWC-5

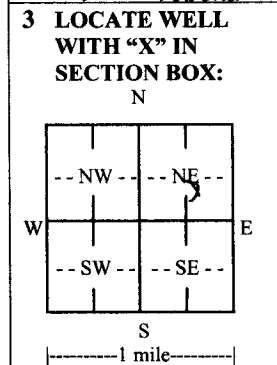
Division of Water
Resources App. No. []

Well ID **KSMW-1**

Original Record Correction Change in Well Use

| | | | | | |
|--|--|---|-----------------------------|----------------------------------|---------------------------------|
| 1 LOCATION OF WATER WELL: County: Shawnee | | Fraction SE 1/4 NW 1/4 SE 1/4 NE 1/4 | Section Number 30 | Township Number T 22 S | Range Number R 16 E W |
|--|--|---|-----------------------------|----------------------------------|---------------------------------|

| | | | |
|---|--|--|---|
| 2 WELL OWNER: Last Name: KDHE 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"/> 400 & 424 South Kansas Ave Topeka, KS 66612 |
| Business: KDHE | | | |
| Address: 1000 SW Jackson St. | | | |
| City: Topeka State: KS ZIP: 66612 | | | |



4 DEPTH OF COMPLETED WELL: **23** ft.

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

WELL'S STATIC WATER LEVEL: ft.
 below land surface, measured on (mo-day-yr)
 above land surface, measured on (mo-day-yr)

Pump test data: Well water was **N/A** ft.
after **N/A** hours pumping **N/A** gpm
Well water was **N/A** ft.
after **N/A** hours pumping **N/A** gpm

Estimated Yield: **N/A** gpm
Bore Hole Diameter: **8.25** in. to **23.0** ft. and
6.0 in. to **31.5** ft.

5 Latitude: **39.05314** (decimal degrees)
Longitude: **-95.67233** (decimal degrees)
Horizontal Datum: WGS 84 NAD 83 NAD 27
Source for Latitude/Longitude:
 GPS (unit make/model:)
(WAAS enabled? Yes No)
 Land Survey Topographic Map
 Online Mapper:

6 Elevation: **932.43** 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 | 2. <input type="checkbox"/> Feedlot 3. <input type="checkbox"/> Industrial | 4. <input type="checkbox"/> Public Water Supply: well ID | 5. <input type="checkbox"/> Dewatering: how many wells? | 6. <input type="checkbox"/> Aquifer Recharge: well ID | 7. <input checked="" type="checkbox"/> Monitoring: well ID KSMW-1 | 8. Environmental Remediation: well ID | 9. Air Sparge <input type="checkbox"/> Soil Vapor Extraction <input type="checkbox"/> Recovery <input type="checkbox"/> Injection | 10. Oil Field Water Supply: lease | 11. Test Hole: well ID | 12. Geothermal: how many bores? | 13. Other (specify): |
|---|---|--|---|---|--|---|---|---|------------------------------|---------------------------------------|----------------------------|

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 **21.5** ft., Diameter **N/A** in. to **N/A** ft., Diameter **N/A** in. to **N/A** ft.
Casing height above land surface **0** in. Weight **N/A** 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 **21.5** ft. to **31.5** ft., From **N/A** ft. to **N/A** ft., From **N/A** ft. to **N/A** ft.

GRAVEL PACK INTERVALS: From **19.5** ft. to **31.5** ft., From **N/A** ft. to **N/A** ft., From **N/A** ft. to **N/A** ft.

9 GROUT MATERIAL: Neat cement Cement grout Bentonite Other **Concrete 0 to 2**

Grout Intervals: From **2** ft. to **19.5** ft., From **N/A** ft. to **N/A** ft., From **N/A** ft. to **N/A** 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 |
|---------|----|-------------------------------|------|----|--|
| | | Detailed boring logs attached | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

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) **2/15/2022** and this record is true to the best of my knowledge and belief. Kansas Water Well Contractor's License No. **759** This Water Well Record was completed on (mo-day-year) **3/13/2022** under the business name of **RAZEK Environmental, LLC** Signature: *[Signature]*

Shawnee

31-11-16E

Project: **PCE-South Kansas Avenue (Montgomery Ward)**
 Project Location: **320 South Kansas Avenue, Topeka, Kansas**
 Project Number: **C4-089-73558**

ppB enviro-solutions
 112 SW 6th Ave., Suite 201
 Topeka, Kansas
 785.256.0045

Key to Log of Boring
Sheet 1 of 1

| Elevation (feet) | Depth (feet) | Sample Type | Sample Number | PID Reading, ppm | Material Type | Graphic Log | MATERIAL DESCRIPTION | Well Log | REMARKS AND OTHER TESTS |
|------------------|--------------|-------------|---------------|------------------|---------------|-------------|----------------------|----------|-------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |

COLUMN DESCRIPTIONS

- | | |
|---|--|
| <p>1 Elevation (feet): Elevation (MSL, feet). 2 Depth (feet): Depth in feet below the ground surface. 3 Sample Type: Type of soil sample collected at the depth interval shown. 4 Sample Number: Sample identification number. 5 PID Reading, ppm: The reading from a MiniRAE photo-ionization detector, in parts per million.</p> | <p>6 Material Type: Type of material encountered. 7 Graphic Log: Graphic depiction of the subsurface material encountered. 8 MATERIAL DESCRIPTION: Description of material encountered. May include consistency, moisture, color, and other descriptive text. 9 Well Log: Graphical representation of well installed upon completion of drilling and sampling. 10 REMARKS AND OTHER TESTS: Comments and observations regarding drilling or sampling made by driller or field personnel.</p> |
|---|--|







FIELD AND LABORATORY TEST ABBREVIATIONS

| | |
|---|--|
| <p>CHEM: Chemical tests to assess corrosivity COMP: Compaction test CONS: One-dimensional consolidation test LL: Liquid Limit, percent</p> | <p>PI: Plasticity Index, percent SA: Sieve analysis (percent passing No. 200 Sieve) UC: Unconfined compressive strength test, Qu, in ksf WA: Wash sieve (percent passing No. 200 Sieve)</p> |
|---|--|






MATERIAL GRAPHIC SYMBOLS

| | |
|---|---|
|  Asphaltic Concrete (AC) |  AF |
|  Bentonite chips |  Grass and/or topsoil |
|  Lean CLAY, CLAY w/SAND, SANDY CLAY (CL) |  Limestone |
|  Portland Cement Concrete |  Shale |
| |  Well graded SAND (SW) |

TYPICAL SAMPLER GRAPHIC SYMBOLS

| | |
|---|---|
|  Auger sampler |  CME Sampler |
|  Bulk Sample |  Grab Sample |
|  3-inch-OD California w/ brass rings |  2.5-inch-OD Modified California w/ brass liners |

OTHER GRAPHIC SYMBOLS

| |
|--|
|  Water level (at time of drilling, ATD) |
|  Water level (after waiting) |
|  Minor change in material properties within a stratum |
|  Inferred/gradational contact between strata |
|  Queried contact between strata |

GENERAL NOTES

- Soil classifications are based on the Unified Soil Classification System. Descriptions and stratum lines are interpretive, and actual lithologic changes may be gradual. Field descriptions may have been modified to reflect results of lab tests.
- Descriptions on these logs apply only at the specific boring locations and at the time the borings were advanced. They are not warranted to be representative of subsurface conditions at other locations or times.






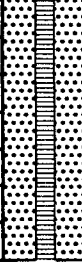
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Shawnee

31-11-16E

| | | |
|---|--|--------------------------------------|
| Project: PCE-South Kansas Avenue (Montgomery Ward) Project Location: 320 South Kansas Avenue, Topeka, Kansas Project Number: C4-089-73558 | ppB enviro-solutions 112 SW 6th Ave., Suite 201 Topeka, Kansas 785.256.0045 | Log of Boring KSMW-1 Sheet 1 of 2 |
|---|--|--------------------------------------|

| | | |
|---|--|-----------------------------|
| Date(s) Drilled: 2/15/22 | Logged By: J. Murphy | Checked By: R. Weiser |
| Drilling Method: Hollow-Stem Auger/Air Rotary | Drill String: 8.25-in OD HSA/6-in OD roller bit with air | Total Depth of Borehole: 32 |
| Drill Rig Type: Geoprobe Model 7822 DT | Drilling Contractor: Rizek - Tony Poulter | Surface Elevation: 932.43 |
| Static Water Level and GW Elevation | Sampling Method(s): NA | TOC Elevation: 932.01 |
| Borehole Backfill: Well Completion | Location: Southwest corner of property | |

| Elevation (feet) | Depth (feet) | Sample Type | Sample Number | PID Reading, ppm | Material Type | Graphic Log | MATERIAL DESCRIPTION | Well Log | REMARKS AND OTHER TESTS |
|------------------|--------------|-------------|---------------|------------------|---------------|---|---------------------------------------|---|-------------------------|
| 932.43 | 0 | | | | | | Woodchips/topsoil | | |
| | | | | | CL |  | Dark brown clay, stiff/low plasticity |  | |
| 927.43 | 5 | | | | | | | | |
| | | | | | CL |  | Brown clay, medium plasticity |  | |
| 922.43 | 10 | | | | | | | | |
| 917.43 | 15 | | | | | | | | |
| | | | | | Limestone |  | Brown limestone |  | |
| 912.43 | 20 | | | | | | | | |
| 907.43 | 25 | | | | | | | | |
| 902.43 | 30 | | | | | | | | |

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
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Log of Boring KSMW-1
 Sheet 2 of 2

| Elevation (feet) | Depth (feet) | Sample Type | Sample Number | PID Reading, ppm | Material Type | Graphic Log | MATERIAL DESCRIPTION | Well Log | REMARKS AND OTHER TESTS |
|------------------|--------------|-------------|---------------|------------------|---------------|---|----------------------|---|-------------------------|
| 902.43 | 30 | | | | Shale |  | Gray shale |  | |
| 897.43 | 35 | | | | | | | | |
| 892.43 | 40 | | | | | | | | |
| 887.43 | 45 | | | | | | | | |
| 882.43 | 50 | | | | | | | | |
| 877.43 | 55 | | | | | | | | |
| 872.43 | 60 | | | | | | | | |
| 867.43 | 65 | | | | | | | | |

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- Legend**
- SI Proposed Wells
 - Water
 - Stormwater
 - Sewer
 - Parcel Boundary

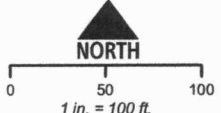


FIGURE 3
MONITORING WELL LOCATIONS

PCE - SOUTH KANSAS AVENUE - SITE INSPECTION
400 AND 424 SOUTH KANSAS AVENUE, TOPEKA, KANSAS

KDHE#: C4-089-73558

Source: NAIP 2019 and 2021 Google Earth || Location: NE 1/4 of Sec 31 - T11S - R16E, Shawnee County, KS



Drawn By: J Polak
 Project Manager: J Polak
 Date: 10/13/2021