

WATER WELL RECORD

Form WWC-5

Division of Water Resources App. No.

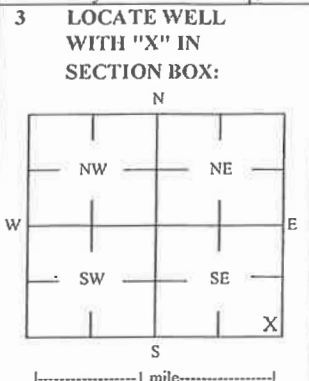
Well ID

MW2

[X] Original Record [] Correction [] Change in Well Ust

1 LOCATION OF WATER WELL: County Douglas Fraction SE 1/4 SE 1/4 SE 1/4 SE 1/4 Section Number 1 Township Number T 13 S Range Number R 19 [X] E [] W

2 WELL OWNER: Last Name: 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: [] Business: KDHE (Louisiana Purchase Shopping Center) Address: 1000 SW Jackson 2233 Louisiana St, Lawrence, KS City: Topeka State: KS ZIP: 66612



3 LOCATE WELL WITH 'X' IN SECTION BOX: 4 DEPTH OF COMPLETED WELL: 24 ft Depth(s) Groundwater Encountered: 1) 1 ft 2) ft 3) ft, or 4) [] Dry Well WELL'S STATIC WATER LEVEL: 6.24 ft. [X] below land surface, measured on (mo-day-yr) 8/7/19 [] 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: 7.25 in to ft, and in to ft

5 Latitude: 38.94340 (decimal degrees) Longitude: 95.24200 (decimal degrees) Horizontal Datum: [] WGS 84 [] NAD 83 [] NAD 27 Source for Latitude/Longitude: [] GPS (unit make/model:) (WAAS enabled? [] Yes [] No) [X] Land Survey [] Topographic Map [] Online Mapper 6 Elevation: 878.96 ft [] Ground Level [X] TOC Source [X] Land Survey [] GPS [] Topographic Map [] Other

7 WELL WATER TO BE USED AS: 1 Domestic: [] Household [] Lawn & Garden [] Livestock 2 Irrigation 3 Feedlot 4 Industrial 5 [] Public Water Supply: well ID 6 [] Dewatering: how many wells? 7 [] Aquifer Recharge: well ID 8 [X] Monitoring: well ID MW2 9 Environmental Remediation: well ID [] Air Sparge [] Soil Vapor Extractor [] Recovery [] Injection 10 [] Oil Field Water Supply: lease 11 Test Hole: well ID [] Cased [] Uncased [] Geotechnical 12 Geothermal: How many bores? a) Closed Loop [] Horizontal [] Vertical b) Open Loop [] Surface Discharge [] Inj. of Water [] Other (specify):

Was a chemical/bacteriological sample submitted to KDHE? [] Yes [X] No If yes, date sample was submitted: Water well disinfected? [] Yes [X] No

8 TYPE OF CASING USED: [] Steel [X] PVC [] Other CASING JOINTS: [] Glued [] Clamped [] Welded [X] Threaded Casing diameter 2 in. to 9 ft, Diameter in. to ft, Diameter in. to ft, Casing height above land surface -0.40 in. Weight lbs./ft. Well thickness or gauge No TYPE OF SCREEN OR PERFORATION MATERIAL: [] Steel [] Stainless Steel [] Fiberglass [X] PVC [] Other (Specify) [] Brass [] Galvanized Steel [] Concrete tile [] None used (open hole) SCREEN OR PERFORATION OPENINGS ARE: [] Continuous Slot [X] 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 9 ft. to 24 ft, From ft. to ft, From ft. to ft, GRAVEL PACK INTERVALS: From 7 ft. to 24 ft, From ft. to ft, From ft. to ft,

9 GROUT MATERIAL: [] Neat cement [] Cement grout [X] Bentonite [X] Other Concrete: 0-0.7 Grout intervals: From 0.7 ft. to 7 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 [X] Fuel Storage [] Abandoned Water Well [] Watertight Sewer Lines [] Seepage Pit [] Feedyard [] Fertilizer Storage [] Oil Well / Gas Well [] Other (Specify) Direction from well? ~250 ft Distance from well? S ft

Table with columns: FROM, TO, LITHOLOGIC LOG, FROM, TO, LITHO. LOG (cont.) or PLUGGING INTERVALS. Rows: 0-0.3 Asphalt, 0.3-0.7 Concrete, 0.7-1 Gravel, 1-19.5 Silty clay, 19.5-24 Shale.

Notes: KDHE ID: Louisiana Purchase Shopping Center; U4-023-15105 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 [X] constructed, [] reconstructed, [] plugged under my jurisdiction and was completed on (mo-day-year) 7/16/19 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) 8/15/19 under the business name of Larsen & Associates, Inc. Signature

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.

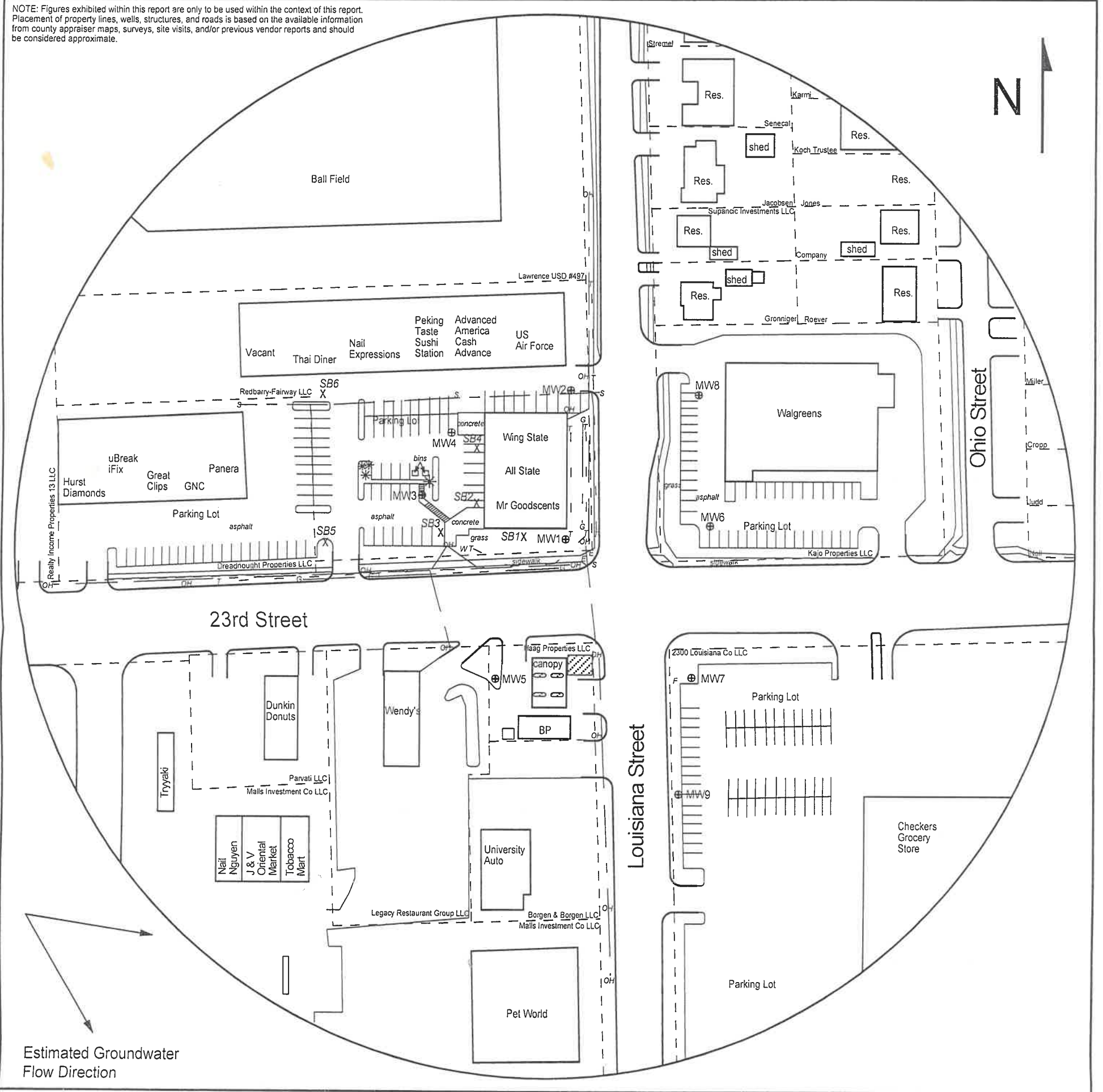


FIGURE 2.2 - 500 FT RADIUS AREA BASE MAP

LEGEND

- Approximate Location of Active UST Basin & Pump Islands
- Approximate Location of Property Line
- Monitoring Well (Installed 7/16-18/19)
- Soil Boring (Drilled 7/17/19 & 7/19/19)
- Fire Hydrant
- Electric Lines (2 - 6 ft bgs)
- Gas Lines (1.5 - 3 ft bgs)
- Overhead Lines (25'-40' high)
- Sewer Lines (2 - 6 ft bgs)
- Telephone Lines (2 - 6 ft bgs)
- Water Lines (2 - 6 ft bgs)

NOTE: Location of UST basin, product lines and pump islands is unknown.
 NOTE: SB5 & SB6 were drilled to collect hydrologic samples.
 NOTE: Utility depths, heights and locations are approximate.



PROJECT:
 Louisiana Purchase Shopping Center
 2233 Louisiana St
 Lawrence, KS
 KDHE ID: U4-023-15105
 Date: 8/7/19



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

RECEIVED
 SEP 06 2019
 BUREAU OF WATER

DENNIS L HANDKE

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

Jess Chapman
Larsen & Associates
1311 E. 25th Street, Suite B
Lawrence, Kansas 66046

August 17, 2019

RE: Monitor Well Elevation Survey
2233 Louisiana St., Lawrence, Kansas

Proj. 19-00Z
Louisiana Purchase Shopping Center
KDHE ID U4-023-15105

Bench Mark: Chisled Sq. on NW corner of concrete signal light base.

Elev: 878.50 North 33.27 West 50.29 (from SE Cor. Sec. 1-13-19E)

MW-1	rim	879.25	North	54.63	SE1/4,SE1/4,SE1/4,SE1/4
	top pipe	878.92	West	65.83	Lat = 38.94301 Long = 95.24206
MW-2	rim	879.36	North	197.72	SE1/4,SE1/4,SE1/4,SE1/4
	top pipe	878.96	West	49.97	Lat = 38.94340 Long = 95.24200
MW-3	rim	880.43	North	97.19	SE1/4,SE1/4,SE1/4,SE1/4
	top pipe	880.11	West	194.45	Lat = 38.94313 Long = 95.24251
MW-4	rim	880.41	North	156.54	SE1/4,SE1/4,SE1/4,SE1/4
	top pipe	880.03	West	166.92	Lat = 38.94329 Long = 95.24241
MW-5	rim	878.49	South	70.95	NE1/4,NE1/4,NE1/4,NE1/4 (Sec. 12-13-19E)
	top pipe	878.07	West	136.43	Lat = 38.94266 Long = 95.24231
MW-6	rim	878.84	North	66.63	SW1/4,SW1/4,SW1/4,SW1/4 (Sec. 6-13-20E)
	top pipe	878.51	East	75.18	Lat = 38.94304 Long = 95.24156
MW-7	rim	874.97	South	80.69	NW1/4,NW1/4,NW1/4,NW1/4 (Sec. 7-13-20E)
	top pipe	874.42	East	60.42	Lat = 38.94264 Long = 95.24162
MW-8	rim	878.17	North	186.16	SW1/4,SW1/4,SW1/4,SW1/4 (Sec. 6-13-20E)
	top pipe	877.85	East	68.43	Lat = 38.94337 Long = 95.24159
MW-9	rim	874.77	South	188.86	NW1/4,NW1/4,NW1/4,NW1/4 (Sec. 7-13-20E)
	top pipe	874.44	East	42.26	Lat = 38.94234 Long = 95.24168

Elevation derived from City of Lawrence bench mark at 23RD & Alabama. NAVD 27.

Lat & Long derived from Lawrence East 7.5 Quad Map WGS84.

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

August 17, 2019
Dennis L Handke RLS

