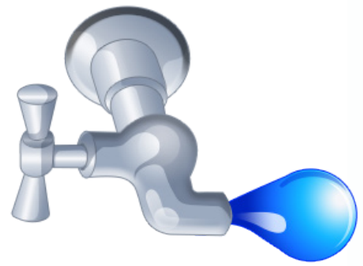
SUVA (SPECFIC ULTRAVIOLET ABSORBANCE)	8/7/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	2.3	1.8 - 2.3	L/MG-M	
TDS	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	470	470	MG/L	500
UV ABSORBANCE @254 NM	8/7/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	0.056	0.04 - 0.056	CM-1	

Please Note: Because of sampling schedules, results may be older than 1 year.

During the 2024 calendar year, the water systems that we purchase water from had the below noted violation(s) of drinking water regulations.

LAN-DEL WATER DISTRICT
601 Holiday Plaza | Lansing, KS 66043

WATER QUALITY REPORT 2024



LAN-DEL WATER DISTRICT
601 Holiday Plaza | Lansing, KS 66043

TEL: 913-727-3350

OFFICE HOURS: 8:00 - 5:00
MON - FRI EXCEPT HOLIDAYS

Testing Results for: LAN DEL WATER DISTRICT

Microbiological	Result	MCL	MCLG	Typical Source
COLIFORM (TCR)	In the month of August, 1 sample(s) returned as positive	Treatment Technique Trigger	0	Naturally present in the environment

Disinfection Byproducts	Monitoring Period	Highest RAA	Range (low/high)	Unit	MCL	MCLG	Typical Source
TOTAL HALOACETIC ACIDS (HAA5)	2024	16	16	ppb	60	0	By-product of drinking water disinfection
TTHM	2024	32	32	ppb	80	0	By-product of drinking water chlorination

There is no safe level of lead in drinking water. Exposure to lead in drinking water can cause serious health effects in all age groups. Infants and children can have decreases in IQ and attention span. Lead exposure can lead to new learning and behavior problems or exacerbate existing learning and behavior problems. The children of women who are exposed to lead before or during pregnancy can have increased risk of these adverse health effects. Adults can have increased risks of heart disease, high blood pressure, kidney or nervous system problems.

Lead and Copper	Monitoring Period	90th Percentile	Range (low/high)	Unit	AL	Sites Over AL	Typical Source
COPPER, FREE	2021 - 2023	0.12	0.0015 - 0.31	ppm	1.3	0	Corrosion of household plumbing
LEAD	2021 - 2023	0	0 - 5.1	ppb	15	0	Corrosion of household plumbing

Lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. LAN DEL WATER DISTRICT is responsible for providing high-quality drinking water and removing lead pipes but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry, or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking water. If you are concerned about lead in your water and wish to have your water tested, contact LAN DEL WATER DISTRICTat lan-del@lan-del.com. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at http://www.epa.gov/safewater/lead

The Revised Lead and Copper Rule requires water systems to develop and maintain a Service Line Inventory. The service line is the underground pipe that supplies your home or building with water. To inquire about the service line inventory, which lists the material type(s) for your location, please contact Lan-Del Water District at 913-727-3350

Chlorine/Chloramines Maximum Disinfection Level	MPA	MPA Units	RAA	RAA Units
2024 - 2024	3.1000	MG/L	3.0	MG/L

During the 2024 calendar year, we had the below noted violation(s) of drinking water regulations.

Compliance Period	Analyte	Comments
No Violations Occurred in the Calendar Year of 2024		

Additional Required Health Effects Language:

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other potentially harmful bacteria may be present.
There are no additional required health effects violation notices.
Some or all of our drinking water is supplied from another water system. The table below lists all of the drinking water contaminants, which were detected during the 2024 calendar year from the water systems that we purchase drinking water from.

Regulated Contaminants	Collection Date	Water System	Highest Value	Range (low/high)	Unit	MCL	MCLG	Typical Source
ATRAZINE	6/10/2024	LEAVENWORTH WATER DEPARTMENT	1.6	0 - 1.6	ppb	3	3	Runoff from herbicide used on row crops
BARIUM	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	0.096	0.096	ppm	2	2	Discharge from metal refineries
CHROMIUM	4/9/2024	LEAVENWORTH WATER DEPARTMENT	1.9	1.7 - 1.9	ppb	100	100	Discharge from steel and pulp mills
COMBINED RADIUM (-226 & -228)	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	0.771	0.771	PCI/L	5	0	Erosion of natural deposits
COMBINED URANIUM	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	2.1	2.1	µg/l	30	0	Erosion of natural deposits
FLUORIDE	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	0.83	0.66 - 0.83	ppm	4	4	Natural deposits; Water additive which promotes strong teeth.
GROSS ALPHA, EXCL. RADON & U	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	5.31	5.31	pCi/l	15	0	Erosion of natural deposits.
GROSS BETA PARTICLE ACTIVITY	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	5.13	5.13	PCI/L	4	0	Decay of natural and man-made deposits
HEXACHLOROCYCLOPENTADIENE	7/8/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	0.33	0 - 0.33	ppb	50	50	Discharge from chemical factories
NITRATE	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	1.9	1.9	ppm	10	10	Runoff from fertilizer use
NITRATE-NITRITE	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	1.9	1.9	ppm	10	10	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits
SELENIUM	4/3/2024	LEAVENWORTH WATER DEPARTMENT	2.2	0 - 2.2	ppb	50	50	Erosion of natural deposits

Secondary Contaminants	Collection Date	Water System	Highest Value	Range (low/high)	Unit	SMCL
AGGRESSIVE INDEX	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	12	12	SU	
ALKALINITY, BICARBONATE	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	180	180	MG/L	
ALKALINITY, TOTAL	2/5/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	240	160 - 240	MG/L	300
ALUMINUM	4/3/2024	LEAVENWORTH WATER DEPARTMENT	0.044	0.01 - 0.044	MG/L	0.05
BICARBONATE AS HCO3	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	220	220	MG/L	
CALCIUM	5/10/2022	KANSAS CITY BOARD OF PUBLIC UTILITIES	73	73	MG/L	
CALCIUM	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	74	74	MG/L	200
CARBON DIOXIDE	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	4.4	4.4	MG/L	
CARBON, DISSOLVED ORGANIC (DOC)	9/4/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	2.5	2.1 - 2.5	MG/L	
CHLORIDE	4/3/2024	LEAVENWORTH WATER DEPARTMENT	29	25 - 29	MG/L	250
CONDUCTIVITY @ 25 C UMHOS/CM	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	750	750	UMHO/CM	1500
CORROSIVITY	4/9/2024	LEAVENWORTH WATER DEPARTMENT	0.43	0.43	LANG	0
GROSS URANIUM BY ACTIVITY	5/4/2021	KANSAS CITY BOARD OF PUBLIC UTILITIES	2.8	2.8	PCI/L	
HARDNESS, CALCIUM MAGNESIUM	5/18/2023	KANSAS CITY BOARD OF PUBLIC UTILITIES	110	110	MG/L	
HARDNESS, TOTAL (AS CACO3)	4/3/2024	LEAVENWORTH WATER DEPARTMENT	130	120 - 130	MG/L	400
LANGELIER INDEX (PH(S))	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	1.1	1.1	SU	
MAGNESIUM	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	25	25	MG/L	150
METOLACHLOR	6/10/2024	LEAVENWORTH WATER DEPARTMENT	1.2	0 - 1.2	ppb	
ORTHOPHOSPHATE	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	0.18	0.18	MG/L	
PH	4/9/2024	LEAVENWORTH WATER DEPARTMENT	9	8 - 9	PH	8.5
PH, CACO3 STABILITY S.U.	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	6.8	6.8	SU	
PHOSPHORUS, TOTAL	4/9/2024	LEAVENWORTH WATER DEPARTMENT	0.25	0.12 - 0.25	MG/L	5
POTASSIUM	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	6.8	6.8	MG/L	100
SILICA	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	16	16	MG/L	50
SODIUM	4/3/2024	LEAVENWORTH WATER DEPARTMENT	61	55 - 61	MG/L	100
STRONTIUM	5/14/2024	KANSAS CITY BOARD OF PUBLIC UTILITIES	0.57	0.16 - 0.57	PCI/L	
SULFATE	4/3/2024	LEAVENWORTH WATER DEPARTMENT	180	160 - 180	MG/L	250