

City of Lancaster, Ohio
Division of Water
Miller Park Wellhead Protection Program
Historical Groundwater Quality Data

PARAMETERS	Units	MCL/SMCL/ ACTION LEVEL	MW-9S																			
			Apr-15	Oct-15	Oct-15	Nov-15	Nov-15	Dec-15	Dec-15	Jan-16	Feb-16	Mar-16	Apr-16	May-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17
INORGANICS																						
ALUMINIUM	mg/L	50 to 200 (S)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ANTIMONY	ug/L	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC	ug/L	10.0	5.0	9.0	7.0	6.0	6.0	7.0	5.0	11.0	7.0	6.0	5.0	5.0	4.0	3.9	5.5	5.4	6.2	5.5	5.8	4.8
BARIIUM	ug/L	2000	399	459	405	413	393	419	422	475	474	502	494	451	480	ND	491	489	521	529	537	540
BERYLLIUM	ug/L	4.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CADMIUM	ug/L	5.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CALCIUM	mg/L	--	166	163	142	144	144	157	164	179	160	159	165	146	156	148	161	162	170	176	177	179
CHROMIUM	ug/L	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COBALT	ug/L	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COPPER	ug/L	1000 (S) / 1300 (A)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CYANIDE	mg/L	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
IRON	ug/L	300 (S)	446	1830	1660	293	139	798	689	2160	925	331	ND	146	ND	86	328	181	1490	502	538	430
LEAD	ug/L	15 (A)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAGNESIUM	mg/L	--	44.3	44.0	39.1	42.4	45.6	46.0	44.5	50.8	48.7	49.3	49.4	45.9	43.2	42.6	46.1	45.3	51.0	49.3	50.2	52.3
MANGANESE	ug/L	50 (S)	204	142	133	128	144	147	140	140	131	135	124	132	125	117	127	129	125	128	137	123
MERCURY	ug/L	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NICKEL	ug/L	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POTASSIUM	mg/L	--	30.1	19.4	17.8	17.6	16.9	16.8	16.9	18.2	17.6	17.9	18.1	16.7	18.2	17.5	15.2	15.5	15.9	15.4	17.1	17.5
SELENIUM	ug/L	50.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SILVER	ug/L	100 (S)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SODIUM	mg/L	--	302	272	243	212	176	188	184	166	196	210	183	207	222	202	219	198	194	180	173	156
SULFIDE	mg/L	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
THALLIUM	ug/L	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TIN	ug/L	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VANADIUM	mg/L	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ZINC	ug/L	5000 (S)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.0	ND	ND	ND	ND
VOLATILE ORGANICS VOC'S																						
Method 8260	Varies	Varies	ND	ND	ND	ND	D ¹	D ²	D ³	D ⁴	D ⁵	ND	D ⁶	D ⁷	D ⁸	ND	D ⁹	ND	D ¹⁰	D ¹¹	D ¹²	*D ¹³
D ¹ - MTBE 1.1ug/l, D ² - MTBE 1.5ug/l, D ³ - MTBE 1.2ug/l, D ⁴ - MTBE 1.2ug/l, D ⁵ - MTBE 1.3ug/l, D ⁶ - MTBE 1.8ug/l, D ⁷ - MTBE 1.1ug/l, D ⁸ - MTBE 1.3ug/l, D ⁹ - MTBE 1.4ug/l, D ¹⁰ - MTBE 1.3ug/l, D ¹¹ - MTBE 1.2ug/l, D ¹² - MTBE 1.2ug/l, D ¹³ - MTBE 1.6ug/l, Acetone 5.8ug/l, CMTBE 1.1 ug/l, D ²¹ - MTBE 1.0 ug/l, D ²² - MTBE 1.1 ug/l,																						
FIELD PARAMETERS																						
STATIC WATER LEVEL	* from reference point		18.86	21.24	21.99	22.44	21.29	20.40	20.36	20.15	19.75	19.57	19.46	19.99	20.11	20.16	20.41	20.11	20.29	20.19	19.64	19.37
TEMPERATURE	°C	--	18.1	17.4	17.1	17.4	17.4	17.1	18.0	16.9	17.2	17.6	17.4	17.3	17.7	18.1	17.8	18.2	18.2	17.0	16.7	16.8
pH	S.U.	6.5-8.5 (S)	6.95	6.97	7.00	6.97	6.96	6.88	6.89	6.85	6.93	6.92	6.85	7.00	6.82	6.84	6.97	6.93	6.92	6.88	6.93	6.82
CONDUCTIVITY	umhos/cm	--	2280	2340	2170	2010	1941	1947	1970	1870	2060	1949	2140	1606	1777	2001	1764	1544	1750	1489	1317	1425

(S) = Secondary Maximum Contaminant Level

(A) = Action Level

(O) = Ohio EPA Primary Maximum Contaminant Level

D = DETECTED

ND = NOT DETECTED

NA = NOT ANALYZED

NM = NOT MEASURED

*** Jan. 2017 - VOC's Out of Hold Time when analyzed**

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Apr-17	Jul-17	Oct-17	Apr-18	Oct-18	Apr-19	Oct-19	Jun-20	Oct-20
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
4.5	4.1	5.0	6.0	4.0	6.0	13.0	9.0	5.0
571	569	504	452	375	301	411	328	268
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
181	170	165	111	188	137	189	126	125
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
85	ND	312	1670	ND	503	6410	4440	395
ND	ND	ND	ND	ND	ND	ND	ND	ND
51.8	49.6	48.0	44.6	42.7	32.9	39.6	ND	28.9
119	99.5	110	112	108	91	134	102	99
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
18.7	19.0	16.2	14.0	11.8	8.7	12.2	10.8	7.0
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
168	180	172	121	220	200	288	255	198
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	10.3	ND	ND	ND	ND	ND	ND	ND
D ¹⁴	D ¹⁵	D ¹⁶	D ¹⁷	D ¹⁸	D ¹⁹	D ²⁰	D ²¹	D ²²
D ¹⁴ -MTBE 1.1ug/L, D ¹⁵ -MTBE 1.0ug/L, D ¹⁶ -MTBE 1.5ug/L, D ¹⁷ -MTBE 1.3 ug/l, D ¹⁸ -MTBE 1.7 ug/l, D ¹⁹ -MTBE 1.1 ug/l, D ²⁰ -								
16.99	17.28	18.05	16.23	17.46	17.15	19.47	16.56	19.00
17.7	19.1	18.1	15.3	17.9	18.5	16.8	16.2	16.4
6.99	7.07	6.80	6.90	6.98	6.85	6.59	6.93	7.04
1328	2180	2270	2102	2258	1835	2555	2140	1740