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

PARAMETERS	Units	MCL/SMCL/ ACTION LEVEL	MW-9D																	
			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
INORGANICS																					
ALUMINUM	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
ANTIMONY	ug/L	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC	ug/L	10.0	7.0	8.0	8.0	6.0	9.0	9.0	6.0	13.0	9.0	8.0	7.0	7.0	5.0	6.0	6.1	7.7	6.4	6.5	6.3
BARIUM	ug/L	2000	74	78	73	74	135	123	68	108	94	91	82	89	127	111	108	102	83	84	88
BERYLLIUM	ug/L	4.0	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
CALCIUM	mg/L	--	123	118	109	108	149	145	126	133	125	120	113	114	139	134	136	124	114	118	126
CHROMIUM	ug/L	100	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
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
CYANIDE	mg/L	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
IRON	ug/L	300 (S)	934	298	1200	ND	374	1570	321	1830	687	258	ND	ND	80	ND	141	391	996	342	297
LEAD	ug/L	15 (A)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAGNESIUM	mg/L	--	34.7	33.0	29.8	31.7	39.4	37.3	32.9	34.7	34.2	34.0	33.0	34.9	35.5	33.1	36.5	35.0	33.2	33.2	35.1
MANGANESE	ug/L	50 (S)	339	261	276	241	370	392	318	308	328	286	227	297	356	322	344	348	306	268	312
MERCURY	ug/L	2.0	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
POTASSIUM	mg/L	--	6.8	3.2	3.2	3.0	7.2	7.7	4.3	5.4	4.5	4.1	3.5	4.3	7.5	8.2	6.9	7.7	6.8	5.5	6.1
SELENIUM	ug/L	50.0	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
SODIUM	mg/L	--	69.1	22.0	22.7	20.0	87.5	99.6	56.4	62.7	50.2	46.6	20.0	40.5	95.6	97.3	76.2	88.4	60.5	42.9	41.0
SULFIDE	mg/L	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	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
TIN	ug/L	--	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
ZINC	ug/L	5000 (S)	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.0	ND	ND	ND	ND	ND	17.0	ND	11.0	ND
VOLATILE ORGANICS VOC'S																					
Method 8260	Varies	Varies	ND	D[1]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
			D[1] - CHLOROFORM - 1.5 ug/L																		
FIELD PARAMETERS																					
STATIC WATER LEVEL	* from reference point		19.45	23.24	23.04	23.08	21.40	21.22	21.98	20.31	21.24	20.52	20.71	21.23	21.28	21.36	21.74	21.69	21.67	21.37	21.01
TEMPERATURE	°C	--	16.7	16.1	15.8	16.0	16.7	16.5	15.9	15.2	15.6	16.0	15.7	16.1	16.6	16.9	17.0	16.7	16.3	15.6	15.3
pH	S.U.	6.5-8.5 (S)	7.11	7.21	7.20	7.20	7.07	6.94	7.05	7.04	7.00	7.11	7.12	7.23	6.90	6.95	7.07	7.02	7.05	7.04	7.17
CONDUCTIVITY	umhos/cm	--	993	810	829	815	1309	1415	1230	1274	1103	922	790	798	1264	1350	1127	994	1008	803	776

(S) = Secondary Maximum Contaminant Level

(A) = Action Level

(O) = Ohio EPA Primary Maximum Contaminant Level

D = DETECTED

ND = NOT DETECTED

NA = NOT ANALZED

NM = NOT MEASURED

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

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Jan-17	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	ND	ND
5.5	6.3	6.8	6.0	6.0	7.0	7.0	15.0	10.0	5.7
ND	104	132	111	93	145	129	103	95	92
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
117	134	140	127	106	154	151	144	123	122
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	ND	ND	ND
149	ND	ND	174	593	ND	505	3730	3210	341
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
33.1	35.4	35.2	35.0	31.2	37.8	34.6	32.5	ND	33.4
257	312	342	283	329	368	458	397	347	356
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
4.9	7.2	12.1	9.2	9.1	11.2	16.2	11.9	10.8	8.7
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
25.8	59.0	95.6	90.0	88.2	125.0	171.0	131.0	98.8	97.6
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	ND	ND	ND
ND	ND	12.8	ND	ND	ND	15.0	ND	ND	ND

*ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

20.79	18.69	18.85	17.99	17.92	18.40	18.75	20.30	17.45	17.25
15.1	16.2	18.5	17.1	14.4	16.5	17.6	16.0	15.6	16.1
7.02	7.06	6.64	7.00	7.12	7.01	6.77	6.94	7.01	7.01
810	910	1307	1271	1203	1599	1756	1519	1353	1275