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

MW-8

PARAMETERS	Units	MCL/SMCL/ ACTION LEVEL	Oct-95	Jan-96	Apr-96	Jul-96	Feb-97	Apr-97	Jul-97	Oct-97	Jun-98	Dec-98	Jul-99	Apr-00	Nov-00	May-01	Oct-01	May-02	Nov-02	May-03
INORGANICS																				
ALUMINUM	mg/L	50 to 200 (S)	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	53.00	ND	NA	NA	NA	NA	NA
ANTIMONY	ug/L	6	ND	ND	ND	ND	ND	ND	ND	12.00	ND	4.10	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC	ug/L	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BARIUM	ug/L	2000	50	46	45	ND	ND	ND	55	49	64	50	57	51	48	54	64	NA	NA	NA
BERYLLIUM	ug/L	4.0	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
CALCIUM	mg/L	--	120	110	110	125	120	110	110	122	101	NA	130	107	120	110	130	91	110	101
CHROMIUM	ug/L	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	17.00	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
COPPER	ug/L	1000 (S) / 1300 (A)	ND	ND	ND	ND	ND	ND	ND	ND	23	20	20	22	ND	NA	NA	NA	NA	NA
CYANIDE	mg/L	0.2	ND	NA	NA	NA	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND
IRON	ug/L	300 (S)	20	70	70	119	ND	ND	13	13	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND
LEAD	ug/L	15 (A)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAGNESIUM	mg/L	--	32.0	31.0	31.0	34.0	30.0	31.0	31.0	30.0	34.0	NA	34.0	30.1	31.0	29.0	36.0	27.3	31.5	27.3
MANGANESE	ug/L	50 (S)	200	260	14	ND	180	90	140	160	71	NA	194	173	200	170	250	181	167	158
MERCURY	ug/L	2.0	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
POTASSIUM	mg/L	--	3.8	4.1	3.8	4.8	4.9	5.1	4.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	ug/L	50.0	15.0	10.0	5.0	134.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9.0	8.2	8.5	8.2
SILVER	ug/L	100 (S)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SODIUM	mg/L	--	45.0	46.0	36.0	48.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SULFIDE	mg/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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
TIN	ug/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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
ZINC	ug/L	5000 (S)	ND	10.0	10.0	ND	ND	ND	ND	ND	11.0	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANICS VOC'S																				
Method 8260	Varies	Varies	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FIELD PARAMETERS																				
STATIC WATER LEVEL	* from reference point																			
TEMPERATURE	°C	--	17.8	12.8	18.9	16.7	12.8	13.3	14.4	13.9	15.0	NM	NM	13.9	11.8	14.4	14.9	14.3	15.9	15.2
pH	S.U.	6.5-8.5 (S)	7.30	7.50	7.40	7.90	7.20	7.50	6.90	7.50	7.10	7.10	7.10	7.10	7.04	6.80	7.20	7.60	7.27	7.19
CONDUCTIVITY	umhos/cm	--	776	738	808	830	1100	1050	1000	1000	860	980	930	930	1052	970	1110	910	1005	760

PARAMETERS	Units	MCL/SMCL/ ACTION LEVEL	Nov-03	May-04	Nov-04	May-05	Nov-05	Apr-06	Oct-06	May-07	Nov-07	Jun-08	Nov-08	Jul-09	Apr-15	Aprl-16	Oct-16	Apr-17	Oct-17	Apr-18	Oct-18	Apr-19	Oct-19	Jun-20	Oct-20
INORGANICS																									
ALUMINUM	mg/L	50 to 200 (S)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	ND	ND	ND
ARSENIC	ug/L	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BARIUM	ug/L	2000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	65	58	62	54	58	64	58	59	67	68
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	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	ND	ND	ND
CALCIUM	mg/L	--	110	112	129	135	139	132	133	124	134	115	111	125	142	127	116	126	112	105	110	106	99.5	104.0	95.1
CHROMIUM	ug/L	100	ND	ND	ND	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	ND	ND	ND
COPPER	ug/L	1000 (S) / 1300 (A)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CYANIDE	mg/L	0.2	ND	ND	ND	ND	ND	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.04	ND	ND	ND	ND
IRON	ug/L	300 (S)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	163	ND
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	ND	ND	ND
MAGNESIUM	mg/L	--	29.0	30.3	35.5	36.9	40.1	38.6	38.4	33.3	38.1	31.8	31.1	35.1	31.4	37.2	35.1	35.8	30.6	29.0	29.8	28.6	27.3	28.9	26.9
MANGANESE	ug/L	50 (S)	168	176	188	223	272	208	268	222	267	254	232	281	212	205	236	202	206	157	231	178	213	295	291
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	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	ND	ND	ND
POTASSIUM	mg/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.8	6.2	5.7	6.3	5.2	4.0	4.2	4.5	4.5	4.0	3.4
SELENIUM	ug/L	50.0	9.8	10.2	11.0	9.2	15.2	8.2	11.6	13.6	11.1	14.6	11.8	16.6	12	8	10.2	8.0	10.0	11.0	13.0	12.0	11.0	8.0	10.0
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	ND	ND	ND
SODIUM	mg/L	--	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	78.9	80.6	95.3	88.5	62.6	69.0	61.4	64.2	65.1	54.5	58.0
SULFIDE	mg/L	--	ND	ND	ND	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	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	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	ND	ND	ND
ZINC	ug/L	5000 (S)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14.0	ND	10.0	ND	ND	ND	ND
VOLATILE ORGANICS VOC'S																									
Method 8260	Varies	Varies	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FIELD PARAMETERS																									
STATIC WATER LEVEL	* from reference point														5.25	5.60	6.41	4.78	5.60	3.88	5.20	4.75	6.35	4.77	5.90
TEMPERATURE	°C	--	14.8	15.2	16.0	15.1	17.2	15.2	16.6	16.6	15.7	16.2	16.7	16.9	15.9	18.0	19.3	18.4	17.5	16.0	17.3	18.0	16.2	16.9	16.0
pH	S.U.	6.5-8.5 (S)	7.24	6.70	7.16	7.16	7.11	7.10	7.16	7.16	7.26	7.08	7.18	7.18	7.16	7.05	7.21	7.18	7.15	7.20	7.70	6.82	7.88	7.11	7.12
CONDUCTIVITY	umhos/cm	--	1084	920	1254	883	1165	1010	830	830	845	713	559	1091	969	1213	781	852	1000	1001	948	967	926	950	927

(S) = Secondary Maximum Contaminant Level

(A) = Action Level

(O) = Ohio EPA Primary Maximum Contaminant Level

D = DETECTED

ND = NOT DETECTED

NA = NOT ANALIZED

NM = NOT MEASURED