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

PARAMETERS	Units	MCL/SMCL/ ACTION LEVEL	MW-6D																														
			Oct-95	Jan-96	Apr-96	Jul-96	Feb-97	Apr-97	Jul-97	Oct-97	Jun-98	Dec-98	Jul-99	Aug-00	Nov-00	May-01	Oct-01	May-02	Nov-02	May-03	Nov-03	May-04	Oct-04	May-05	Nov-05	Apr-06	Oct-06	May-07	Nov-07	Jun-08	Nov-08	Jul-09
INORGANICS																																	
ALUMINUM	mg/L	50 to 200 (S)	ND	ND	150	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ANTIMONY	ug/L	6	ND	ND	ND	ND	ND	ND	ND	5.70	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	4.0	6.0	ND	ND	16.0	20.0	17.0	16.0	14.0	13.0	16.0	8.8	11.0	13.0	11.0	9.5	10.5	8.5	10.2	10.7	9.8	10.3	9.9	10.8	11.9	11.8	12.6	14.8	14.5	9.9
BARIUM	ug/L	2000	240	310	210	290	290	290	295	270	299	272	251	275	250	279	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	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	ND	ND	ND	ND	ND	ND	ND	ND
CALCIUM	mg/L	--	100	110	110	116	110	120	120	120	98	115	119	104	90	120	230	111	108	116	119	115	108	118	106	106	119	115	111	116	123	113
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	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	ND	ND	ND	ND	ND	ND	ND	ND
COPPER	ug/L	1000 (S) / 1300 (A)	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.00	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
CYANIDE	mg/L	0.2	ND	NA	NA	NA	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
IRON	ug/L	300 (S)	80	2000	4600	510	4600	4400	4200	3900	4700	4100	3800	4070	3970	4220	13800	3740	3480	3550	3430	3770	3250	3390	3650	3610	4050	3770	3810	3880	4120	3790
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	ND	ND	ND	ND	ND	ND	ND	ND
MAGNESIUM	mg/L	--	33.0	37.0	35.0	37.0	36.0	38.0	35.0	36.0	33.0	35.0	35.0	30.7	30.0	36.0	39.0	37.0	34.5	35.2	35.3	35.3	35.6	36.7	35.2	34.4	37.9	36.8	36.7	37.9	40.3	37.3
MANGANESE	ug/L	50 (S)	75	75	110	45	58	67	54	51	59	48	47	53	50	60	47	49	44	49	45	55	49	45	48	52	56	56	52	58	54	48
MERCURY	ug/L	2.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36	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	ND	ND	ND	ND	ND	ND	ND	ND
POTASSIUM	mg/L	--	1.4	1.6	2.2	< 5	1.3	1.5	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SELENIUM	ug/L	50	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
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	ND	ND	ND	ND	ND	ND	ND	ND
SODIUM	mg/L	--	9.4	12.0	22.0	10.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	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	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.20	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	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	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	ND	ND	ND	ND	ND	ND	ND	ND
ZINC	ug/L	5000 (S)	40	20	40	26	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
VOLATILE ORGANICS VOC'S																																	
Method 8260	Varies	Varies	ND	ND	D[1]	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
			D[1] - Carbon Disulfate (24 ug/l)																														
FIELD PARAMETERS																																	
STATIC WATER LEVEL	* from reference point																																
TEMPERATURE	°C	--	20.6	13.9	13.3	17.8	12.2	12.8	13.9	13.3	14.4	13.9	NM	19.5	11.6	13.9	13.2	13.8	13.1	14.1	13.7	14.2	13.4	13.9	14.3	13.7	13.8	13.8	14.2	14.5	14.0	16.5
pH	S.U.	6.5-8.5 (S)	7.60	7.70	7.80	7.70	7.40	7.50	7.20	7.40	7.60	7.40	7.40	7.29	7.17	6.60	7.50	7.20	7.32	7.16	7.29	6.77	7.34	7.40	7.35	7.30	7.32	7.32	7.27	7.39	7.21	7.33
CONDUCTIVITY	umhos/cm	--	617	643	709	650	870	920	800	820	800	800	750	679	817	710	790	750	773	692	811	629	769	544	752	627	538	538	592	552	494	785

(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

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Historical Groundwater Quality Data

PARAMETERS	Units	MCL/SMCL/ ACTION LEVEL	Apr-15	Apr-16	Oct-16	Apr-17	Oct-17	Apr-18	Oct-18	Apr-19	Oct-19	Jun-20	Oct-20	May-21
INORGANICS														
ALUMINUM	mg/L	50 to 200 (S)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8
ANTIMONY	ug/L	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC	ug/L	10.0	10.0	7.0	5.4	5.7	5.0	5.0	8.5	4.0	16.0	9.4	5.0	5.0
BARIUM	ug/L	2000	246	212	205	209	210	214	220	211	241	255	239	235
BERYLLIUM	ug/L	4.0	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
CALCIUM	mg/L	--	111	102	113	101	115	116	126	119	123	116	116	120
CHROMIUM	ug/L	100	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
COPPER	ug/L	1000 (S) / 1300 (A)	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
IRON	ug/L	300 (S)	559	ND	ND	ND	102	177	499	ND	3990	3790	94	311
LEAD	ug/L	15 (A)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MAGNESIUM	mg/L	--	29.6	34.4	37.6	37.1	37.0	37.0	38.5	36.5	36.5	37.1	37.4	39.2
MANGANESE	ug/L	50 (S)	47	48	54	54	44	48	47	48	43	66	52	48
MERCURY	ug/L	2.0	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
POTASSIUM	mg/L	--	2.9	2.8	2.4	2.5	2.3	ND	ND	ND	2.3	2.2	ND	2.1
SELENIUM	ug/L	50	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
SODIUM	mg/L	--	59.2	37.2	33.4	25.2	19.0	15.0	15.5	18.4	28.5	24.8	21.7	24.9
SULFIDE	mg/L	--	ND	NA	ND	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	1.00
TIN	ug/L	--	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
ZINC	ug/L	5000 (S)	ND	ND	25	ND	ND	ND	15	15	ND	ND	ND	3
VOLATILE ORGANICS VOC'S														
Method 8260	Varies	Varies	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FIELD PARAMETERS														
STATIC WATER LEVEL	* from reference point		13.08	13.57	14.31	12.60	13.95	11.55	14.88	12.85	14.35	12.60	13.70	12.60
TEMPERATURE	°C	--	15.7	16.2	16.7	16.8	17.2	13.5	17.8	17.7	17.9	16.8	15.0	14.7
pH	S.U.	6.5-8.5 (S)	7.32	7.28	7.36	7.20	7.21	7.28	7.42	6.76	7.82	7.06	6.84	7.65
CONDUCTIVITY	umhos/cm	--	833	767	600	626	834	859	964	896	915	916	928	904

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