CITY OF LANCASTER BUREAU OF WATER

CHEMISTRY & MICROBIOLOGY LABORATORIES



2022 DRINKING WATER ANALYSIS REPORT

TABLE OF CONTENTS

ANALYSIS	PAGE
INORGANIC	1
CHLORINE, TURBIDITY, MICROBIOLOGICAL TRIHALOMETHANES, HALOACETIC ACIDS	2
SECONDARY CONTAMINANTS, OTHER TESTS	3
VOLATILE ORGANIC CHEMICALS	4
SYNTHETIC ORGANIC CHEMICALS	5
ABBREVIATIONS	6

DRINKING WATER ANALYSIS REPORT

PA DEPARTMENT OF ENVIRONMENTAL PROTECTION - PRIMARY CONTAMINANT LIST

INORGANIC

<u>ANALYSIS</u>	CONESTOGA	PLANT	SUSQU	EHANNA	PLANT	PA DEP MC	<u>L</u>
ANTIMONY	ND	mg/L	ND	mg/L		0.006	mg/L
ARSENIC	ND	"	ND	"		0.01	
ASBESTOS	ND	MF/L	ND	MF/L		7	MF/L
BARIUM	0.053	mg/L	0.022	mg/L		2	mg/L
BROMIDE	ND	"	ND	"		NS	
BERYLLIUM	ND	"	ND	"		0.004	mg/L
CADMIUM	ND	"	ND	"		0.005	
CHROMIUM	ND	"	ND	"		0.1	"
COPPER	0.283	"	0.283	"		1.3	"
CYANIDE, Free	ND	"	ND	"		0.2	"
FLUORIDE	0.58	"	0.68	"		2.0	"
LEAD *	0.0099	"	0.0099	"		0.015	"
MERCURY	ND	"	ND	"		0.002	"
NICKEL	ND	"	0.001	"		0.1	"
NITRATE	5.77	"	1.3	"		10	"
SELENIUM	ND	"	ND	"		0.05	"
THALLIUM	ND	"	ND	"		0.002	"

^{*} Lead Levels from High Risk Homes in the Distribution System: 90th Percentile = 0.0099 mg/L. Tested in 2022.

DRINKING WATER ANALYSIS REPORT

PA DEPARTMENT OF ENVIRONMENTAL PROTECTION - PRIMARY CONTAMINANT LIST

CHLORINE

ANALYSIS CONESTOGA PLANT OYSTER POINT RESERVOIR DEP MCL

CHLORINE, Free Residual 1.23 1.17 4.0 mg/L

TURBIDITY

ANALYSIS CONESTOGA PLANT SUSQUEHANNA PLANT PA DEP MCL

TURBIDITY, Combined Effluent 0.01 NTU 0.01 NTU 0.15 NTU

MICROBIOLOGICAL

RESULT DEP TT

TOTAL COLIFORM* 0.00% <5% POSITIVES/MONTH

RESULT PA DEP MCL

ESCHERICHIA COLI* 0 POSITIVES/MONTH

0

TRIHALOMETHANES

RESULT PA DEP MCL

TRIHALOMETHANES, TOTAL * 66 μg/L 80 μg/L

(Highest 12 Month Locational Running Annual Average)

HALOACETIC ACIDS

RESULT PA DEP MCL

HALOACETIC ACIDS, TOTAL * 41 $\mu g/L$ 60 $\mu g/L$

(Highest 12 Month Locational Running Annual Average)

^{*} Results are from samples taken in the distribution system

DRINKING WATER ANALYSIS REPORT

PA DEPARTMENT OF ENVIRONMENTAL PROTECTION - SECONDARY CONTAMINANT LIST

SECONDARY

<u>ANALYSIS</u>	CONESTOGA	PLANT	SUSQUEH	ANNA PLANT	PA DEP SMC	<u>L</u>
ALUMINUM, Total	0.06	mg/L	0.06	mg/L	0.05-0.2	mg/L
CHLORIDE	35.2	"	22.5	TI .	250	•
COLOR	0.7	CU	0.2	CU	15	CU
IRON, Total	0.02	mg/L	0.04	mg/L	0.3	mg/L
MANGANESE, Total	0.026	"	0.017	m .	0.05	•
рН	7.5	SU	7.4	SU	6.5-8.5	SU
SULFATE	47	mg/L	34	mg/L	250	mg/L

OTHER TESTS

	CONESTOG	A PLANT	SUSQUEH	IANNA PLANT	PA DEP Rand	<u>1e</u>
ALKALINITY	150	mg/L	62	mg/L	NS	mg/L
HARDNESS, milligrams/liter	222	"	98	"	NS	"
HARDNESS, grains/gallon	13	GPG	6	GPG	NS	GPG
ORGANIC CARBON, Total	2.3	mg/L	1.7	mg/L	NS	mg/L
PHOSPHATE, Ortho	0.21	mg/L	0.22	mg/L	0.13-0.33	"
SPECIFIC CONDUCTANCE	604	μS/cm	314	μS/cm	NS	μS/cm

Page 3 of 6

DRINKING WATER ANALYSIS REPORT

PA DEPARTMENT OF ENVIRONMENTAL PROTECTION - VOLATILE ORGANIC CHEMICAL LIST

VOLATILE ORGANIC CHEMICALS

<u>ANALYSIS</u>	CONESTOG	A PLANT	SUSQ	UEHANNA PLANT	PA DEP MCI	
BENZENE	ND	mg/L	ND	mg/L	0.005	mg/L
CARBON TETRACHLORIDE	ND	"	ND	"	0.005	"
CHLOROBENZENE	ND	"	ND	"	0.1	"
1,2-DICHLOROBENZENE	ND	m m	ND	II .	0.6	TI TI
1,4 - DICHLOROBENZENE	ND	"	ND	"	0.075	"
1,2-DICHLOROETHANE	ND	"	ND	"	0.005	"
1,1-DICHLOROETHENE	ND	ıı	ND	"	0.007	m m
cis-1,2,-DICHLOROETHYLENE	ND	"	ND	"	0.07	"
trans-1,2,-DICHLOROETHENE	ND	"	ND	TI .	0.1	"
1,2-DICHLOROPROPANE	ND	"	ND	"	0.005	"
ETHYLBENZENE	ND	"	ND	"	0.7	"
METHYLENE CHLORIDE	ND	"	ND	"	0.005	"
STYRENE	ND	ıı .	ND	"	0.1	m m
TETRACHLOROETHENE	ND	"	ND	"	0.005	"
TOLUENE	ND	"	ND	"	1	"
1,2,4-TRICHLOROBENZENE	ND	ıı .	ND	"	0.07	m m
1,1,1-TRICHLOROETHANE	ND	"	ND	"	0.2	"
1,1,2-TRICHLOROETHANE	ND	"	ND	"	0.005	"
TRICHLOROETHENE	ND	"	ND	"	0.005	"
VINYL CHLORIDE	ND	"	ND	"	0.002	"
XYLENES (total)	ND	"	ND	"	10	"

Page 4 of 6

DRINKING WATER ANALYSIS REPORT

PA DEPARTMENT OF ENVIRONMENTAL PROTECTION - SYNTHETIC ORGANIC CHEMICAL LIST

SYNTHETIC ORGANIC CHEMICALS

ANALYSIS	CONESTOGA PLANT		SUSQUEHANNA PLANT		DEP MCL	
ALACHLOR	ND	mg/L	ND	mg/L	0.002	mg/
ALDICARB	ND	"	ND	"	0.003	"
ALDICARB SULFOXIDE	ND	"	ND	"	0.004	"
ALDICARB SULFONE	ND	"	ND	11	0.002	
ATRAZINE	0.00025	"	ND	"	0.003	
BENZO(a)PYRENE	ND	"	ND	"	0.0002	
CARBARYL	ND	"	ND	m .	NS	"
CARBOFURAN	ND	"	ND	"	0.04	
CHLORDANE	ND	"	ND	"	0.002	
DALAPON	ND	"	ND	m .	0.2	"
DIBROMOCHLOROPROPANE	ND	"	ND	"	0.0002	"
BIS(2-ETHYLHEXYL)ADIPHATE	ND	"	ND	"	0.4	"
BIS(2-ETHYLHEXYL)PHTHALATE	ND	"	ND	п	0.006	"
DICAMBA	ND	"	ND	11	0.2	
DINOSEB	ND	"	ND	11	0.007	
DIQUAT	ND	11	ND	11	0.02	"
ENDOTHALL	ND	"	ND	11	0.1	
ENDRIN	ND	"	ND	"	0.0002	
ETHYLENE DIBROMIDE (EDB)	ND	"	ND	11	0.00005	"
GLYCOPHOSPHATE	ND	"	ND	11	0.7	
HEPTACHLOR	ND	"	ND	"	0.0004	
HEPTACHLOR EPOXIDE	ND	11	ND	11	0.0002	"
HEXACHLOROCYCLOPENTADIENE	ND	"	ND	"	0.05	
3-HYDROXYCARBOFURAN	ND	"	ND	"	NS	
LINDANE	ND	"	ND	"	0.0002	
METHOMYL	ND	"	ND	11	NS	
METHOXYCHLOR	ND	"	ND	11	0.04	
METOLACHLOR	ND		ND	"	0.2	
METRIBUXIN	ND		ND	11	0.2	
OXAMYL (Vydate)	ND		ND	11	0.2	
PENTACHLOROPHENOL	ND		ND	11	0.001	
PICLORAM	ND		ND	11	0.5	
PROPACHLOR	ND	"	ND	"	NS	
SIMAZINE	ND		ND	11	0.004	
2,4-D	ND		ND	11	0.07	
2,4,5-TP (SILVEX)	ND		ND	"	0.05	
2,3,7,8-TCDD (DIOXIN)	ND		ND	"	0.0000003	

DRINKING WATER ANALYSIS REPORT

ABBREVIATIONS

°C - DEGREES CENTIGRADE ND - NOT DETECTED Cm - CENTIMETER NS - NO STANDARD

CU - COLOR UNIT NT - NO TEST

HPC - HETEROTROPHIC PLATE COUNT NTU - NEPHELOMETRIC TURBIDITY UNIT

Mg/L - MILLIGRAMS/LITER TT - TREATMENT TECHNIQUE REQUIRMENT

mL - MILLILITER WL - WORKING LEVEL

pCi/L - PICOCURIES/LITER < - LESS THAN

MF/L - MILLION FIBERS PER LITER, LESS THAN 10 MICROMETERS LONG (ASBESTOS)

μS/cm - MICRO SEIMENS PER CENTIMETER

PA DEP - PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

MCL - MAXIMUM CONTAMINANT LEVEL

SMCL - SECONDARY MAXIMUM CONTAMINANT LEVEL, Not Legally Enforceable