## Westchester Joint Water Works **ANALYTICAL TESTING RESULTS** 2016

## Definitions:

Action Level (AL): Maximum Contaminant Level (MCL):

The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow. The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible. The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety. The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants. Maximum Contaminant Level Goal (MCLG): Maximum Residual Disinfectant Level (MRDL):

faximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of

Milligrams per liter (mg/l):

I me level of a dimining water distinectant below which there is no known or expected his to health. Mrct the use of disinfectants to control microbial contamination.

Corresponds to one part of liquid in one million parts of liquid (parts per million - ppm). The contaminant was not detected in the water by laboratory analysis. No level has been established for drinking water.

A measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person. Corresponds to one part of liquid in one billion parts of liquid (parts per billion - ppb). Milligrams per liter (mg/l):
Non Detect (ND):
No Determined Limit (NDL):
Nephelometric Turbidity Unit (NTU):
Micrograms per liter (ug/l):
Picocuries per liter (pci/L):
Locational Running Annual Average
Treatment Technique: (TT):
IICMB?:

A measure of the radioactivity in water.

The average value of multiple samples taken over the latest twelve month period at a particular location. A required process intended to reduce the level of a contaminant in drinking water.

Unregulated Contaminant Monitoring Rule Three Average (LRAA):

Contaminant	Violation	Date	Level Detected	Unit	MCLG	Regulatory Limit	
	Yes/No	of Sample	Max	Measurement		MCL,TT,AL	Likely Source of Contamination
	103/140	or ourripic	(Range)	wicasarcinicin		Highest level allowed	
Regulated Inorganic Con	taminants		(Ivange)			i ligitest level allowed	
regulated inorganic con	lammants		0.019				
D		40/05/0040	(0.016 - 0.019)				For the office of the color
Barium	No	10/25/2016		mg/l	2	2	Erosion of natural deposits.
			11.4				
Chloride	No	10/25/2016	(10.5 - 11.4)	mg/l	-	250	Naturally occurring; road salt
			0.82	ŭ	-	2.2	, ,
Fluoride	No	2016	(0.49 - 0.82)	mg/l			Erosion of natural deposits; Water additive which promotes strong teeth.
Fluoride	INO	2010		IIIg/I			Erosion of flatural deposits, water additive which promotes strong teeth.
			0.004	_			
Cyanide	No	10/25/2016	(0.003 - 0.004) (g)	mg/l	-	0.2	discharge from industrial chemical factories.
			25.2				
Manganese	No	10/25/2016	(16.8 - 25.2 ) (a)	ug/l	-	300	Naturally occurring
			0.101	Ŭ			Runoff from fertilizer use; Leaching from septic tanks; sewage; Erosion of
Nitrate	No	10/25/2016	(0.083 - 0.101)	mg/l	10	10	natural deposits
THILITIC	140	10/20/2010	9.3	mg/i	10	10	natural deposits
0 - 1'		40/05/0040				NDI	Martine III
Sodium	No	10/25/2016	(8.2 - 9.3) (b)	mg/l	-	NDL	Naturally occurring; road salt
			4.37				
Sulfate	No	10/25/2016	(4.34 - 4.37)	mg/l	250	250	Erosion of natural deposits
Turbidity - Entry Point			1.10				
(Purchase Booster Station)	No	2016	(0.77 - 1.10) (c)	NTU	N/A	5	Soil runoff
or about booster oration)	140	2010	0.0045	1110	13/7	J	
7:	N1 -	40/05/0040				_	Not well, and wine
Zinc	No	10/25/2016	(LOQ - 0.0045)	mg/l	-	5	Naturally occurring
Microbiological Contamir	nants						
Total Coliform - Distribution No 2016 3 Total / 4% , February samples 0 5% in one month   Naturally present in the environment							
Contaminants Monitored							
	Under mie	inii Limanoca oun	acc water freatment it	iic (Otage 2 Dis	iiiicolioii D	yproductsj	
Total Trihalomethanes:							
			34 (d)				
Site 1	No	2016	(23 - 37) (e)	ug/l	0	80	Byproduct of drinking water chlorination
			22 (d) (18				
Site 2	No	2016	- 23) (e)	ug/l	0	80	Byproduct of drinking water chlorination
	1.15		31 (d)	-9:			
Site 3	No	2016	(23 - 37) (e)	ug/l	0	80	Byproduct of drinking water chlorination
Site 3	INU	2010	42 (d)	ug/i	U	00	byproduct of diffiking water chlorifiation
0:1: 4		0040			•		Down to the Children and the Conference
Site 4	No	2016	(20 - 50) (e)	ug/l	0	80	Byproduct of drinking water chlorination
			34 (d)				
Site 5	No	2016	(23 - 51) (e)	ug/l	0	80	Byproduct of drinking water chlorination
			14 (d)				
Site 6	No	2016	(11 - 16) (e)	ug/l	0	80	Byproduct of drinking water chlorination
	1.15		25 (d)	-9:			
Site 7	No	2016	(17 - 28) (e)	ug/l	0	80	Byproduct of drinking water chlorination
Oile 7	140	2010	23 (d)	ug/i		- 00	Dyproduct of difficing water efficientation
Cita 0	NI-	2040		//	0	00	Donas donat of delation contact ablasia stice
Site 8	No	2016	(18 - 28) (e)	ug/l	U	80	Byproduct of drinking water chlorination
Haloacetic Acid 5 (HAA5):							
			35 (d)				
Site 1	No	2016	(29 - 43) (e)	ug/l	0	60	Byproduct of drinking water chlorination
			30 (d)				
Site 2	No	2016	(25 - 30) (e)	ug/l	0	60	Byproduct of drinking water chlorination
		-44	35 (d)	7	-		
Site 3	No	2016		ug/l	0	60	Purpoduat of drinking water obleringtion
Site 3	INU	2010	(30 - 38) (e)	ug/i	U	UU	Byproduct of drinking water chlorination
Cita 4	NI-	2040	40 (d)		0	00	D d d. d. d. d. d. d. d. d. d
Site 4	No	2016	(24 - 46) (e)	ug/l	U	60	Byproduct of drinking water chlorination
			38 (d)				
Site 5	No	2016	(30 - 51) (e)	ug/l	0	60	Byproduct of drinking water chlorination
			23 (d)				
Site 6	No	2016	(20 - 26) (e)	ug/l	0	60	Byproduct of drinking water chlorination
			24 (d)	.,	-		"
Site 7	No	2016	(21 - 29) (e)	ug/l	0	60	Byproduct of drinking water chlorination
0		20.0	29 (d)	ug,			
Site 8	No	2016	(13 - 33) (e)	ug/l	0	60	Byproduct of drinking water chlorination
		2010	(10 - 33) (e)	ug/I	U	υU	Dyproduct of diffixing water chlorifiation
Radiological Compliance						ı	I
Gross Alpha	No	2010	0.04 +/- 0.3 (d)	pCi/L	-	<15	Erosion of natural deposits
Gross Beta	No	2010	0.51 +/- 0.44 (d)	pCi/L	-	<5	Erosion of natural deposits
Radium 226	No	2010	0.06 +/- 0.05 (d)	pCi/L	-	<5	Erosion of natural deposits
Radium 228	No	2010	0.02 +/- 0.32 (d)	pCi/L		<5	Erosion of natural deposits
			0.02 T/- 0.32 (U)	POI/L	-	ν.υ	Erosion or natural deposits
Lead and Copper Rule Sampling Results							
			4.4 (f)				
Lead	No	June-Sept.2016	(ND-55.1)	ug/l	0	AL: 15	Corrosion of household plumbing systems; Erosion of natural deposits
Copper	No	June-Sept.2016	202.0 (f) (36.1-	ug/l	0	AL: 1,300	Corrosion of household plumbing systems; Erosion of natural deposits
UCMR3 Detects(h)		•	-				
Chromium	No	7/10/2014	0.31	ug/l	-	NDL	Erosion of natural deposits
Strontium	No	7/10/2014	19.7	ug/l	-	NDL	Naturally occurring mineral
Undetected Conventional				ug/i		INDL	racarany socialing minoral
						L	
Antimony, Arsenic, Beryllium, Bromate, Cadmium, Chlorite, Chromium, Ethylene glycol, Iron, Mercury, Selenium, Silver, Thallium, Nitrite, Nickel, Propylene glycol, Lead and Color							

## Undetected Organic (Principal, Specified and Unspecified) Contaminants

Carbamate pesticides (EPA method 531.1), Pesticides (EPA method 508), Endothall, Glyphosate, MTBE, Nitrobenzene, Herbicides (EPA method 515.1), Microextractables (EPA method 504.1) Volatile organic compounds (EPA method 524.2), Organic chemicals (EPA method 525.2)

- (b) Water with > 20 mg/l of sodium should not be consumed by those on a severely restricted sodium diet. Water with >270 mg/l of sodium should not be consumed by people on a
- moderately restricted diet.
  (c) Turbidity is a measure of cloudiness of the water. We test it because it is a good indicator of water quality. The highest monthly average turbidity measurement for the year (1.10 NTU) occurred in March 2016. High turbidity can hinder the effectiveness of disinfectants. Inadequately treated water may contain disease-causing organisms. These organisms include bacteria, viruses and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches. MCL is the average of two consecutive days.

  (d) This level represents the highest locational running annual average calculated from the data collected.

- (e) This represents the range for this sampling location.

  (f) The level presented represents the ange for this sampling location.

  (g) The level presented represents the 90th percentile of the 30 sites tested. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90% of the values detected at your water system. In the case of lead, 30 samples were collected at your water system and the 90th percentile value was 2.4 ug/l, the 4th highest value of the samples taken. In the case of copper, 30 samples were collected from your water system and the 90th percentile value was 202.0 ug/l, the 4th highest value of the samples taken. Of the 30 sites tested, 2 exceeded the action level for lead and none exceeded the action level for copper. (a) Detected but below the MCL.
- b, For further information related to the UCMR3 results please contact Terry O'Neill Chief Water Treatment Plant Operator at 914-698-3500.