

**RESULTS OF ANALYSIS FOR 2019 FOR CONSECUTIVE SYSTEMS OF COOKEVILLE  
THIS IS IN THE COMPLIANCE PERIOD OF 2017-2019**

Regulated VOC's	RESULTS	detection limit	MCL	DATE	ESC Sample #
				1/31/2019	L1065771
Benzene	ND	0.0005	0.0050		
Carbon tetrachloride	ND	0.0005	0.0050		
1,4-Dichlorobenzene (para)	ND	0.0005	0.0750		
1,2-Dichloroethane (ortho)	ND	0.0005	0.0050		
1,1-Dichloroethene (Dichloroethylene)	ND	0.0005	0.0070		
1,1,1-Trichloroethane	ND	0.0005	0.2000		
Trichloroethene(Trichloroethylene)	ND	0.0005	0.0050		
Vinyl chloride	ND	0.0005	0.0020		
1,2,4-Trichlorobenzene	ND	0.0005	0.0700		
cis-1,2-Dichloroethene (Dichloroethylene)	ND	0.0005	0.0700		
Xylenes, Total	ND	0.0005	10.0000		
Methylene chloride (Dichloromethane)	ND	0.0005	0.0050		
1,2-Dichlorobenzene	ND	0.0005	0.6000		
trans-1,2-Dichloroethene (Dichloroethylene)	ND	0.0005	0.1000		
1,2-Dichloropropane	ND	0.0005	0.0050		
1,1,2-Trichloroethane	ND	0.0005	0.0050		
Tetrachloroethene (Tetrachloroethylene)	ND	0.0005	0.0050		
Chlorobenzene	ND	0.0005	0.1000		
Toluene	ND	0.0005	1.0000		
Ethylbenzene	ND	0.0005	0.7000		
Styrene	ND	0.0005	0.1000		

meta is the 1-3 position, ortho is the 1-2 position, para is the 1-4 position

cis is a double carbon bond attached to two other groups.

trans is a atom positioned opposite.

Unregulated VOC's	Result	detection limit	MCL	Date	ESC Sample #
				1/31/2019	L1065771
Bromobenzene	ND	0.0005			
Bromodichloromethane	0.00162	0.0005	***		
Bromoform	ND	0.0005			
Bromomethane	ND	0.0005			
Chlorodibromomethane (Dibromochloromethane)	ND	0.0005			
Chloroethane	ND	0.0005			
Chloroform	0.0109	0.0005	***		
Chloromethane	ND	0.0005			
1,2-Chlorotoluene (ortho)	ND	0.0005			
1,4-Chlorotoluene (para)	ND	0.0005			
Dibromomethane (Methyl Bromide)	ND	0.0005			
1,3-Dichlorobenzene (meta)	ND	0.0005			
1,1-Dichloroethane	ND	0.0005			
1,3-Dichloropropane	ND	0.0005			
2,2-Dichloropropane	ND	0.0005			
1,1-Dichloropropene	ND	0.0005			
1,3-Dichloropropene	ND	0.0005			
1,1,1,2-Tetrachloroethane	ND	0.0005			
1,1,2,2-Tetrachloroethane	ND	0.0005			
1,2,3-Trichloropropane	ND	0.0005			

\*\*\* Bromodichloromethane is one of the four compounds that is the sum for THM's.

\*\*\* Chloroform is one of the four compounds that is the sum for THM's.

These compounds are formed when chlorine is used in the presence of natural organic matter

Cookeville treatment primarily focuses on organic removal and removes above 60% of organics annually.

The sum of these four compounds must be 0.080 ppb to be in violation of the MCL.

EPA states in the federal register, one must drink 2 liters of water per day for 70 years to have a 1 in 10,000 chance of cancer.

**VOC's ARE ANNUAL SAMPLING**

**SYNTHETIC ORGANIC COMPOUNDS**

		Results	det. limit	MCL in mg/l	Date	ESC SAMPLE #
<b>SOC's-Atrazine-raw</b>						
<b>SOC's-Atrazine-finished</b>		ND	0.0001	0.003	4/24/2017	L906563
<b>SOC's-2, 4 D, added 2014</b>		<0.0001	0.0001	0.07	4/24/2017	L906563
<b>SOC's-Picloram, added 2014</b>		<0.0001	0.0001	0.5	4/24/2017	L906563
<b>MUST BE DONE IN THE COMPLIANCE PERIOD OF 2017-2019.</b>					<b>FINISHED TILL 2020-2022</b>	
<b>SOC's ANALYSIS FOR THE ABOVE IS ONCE DURING EACH 3 YEAR COMPLIANCE PERIOD BETWEEN APRIL AND JULY</b>						
<b>OF EACH 3-YEAR COMPLIANCE PERIOD AFTER A SIGNIFAICANT RAIN EVENT OF 1"</b>						
<b>SOC's for raw for special compliance rule</b>						
			Det Limit	MCL in mg/l		
<b>Nitrate</b>		BDL	0.1	10	5/9/2012	L574139-01-02
<b>Alachlor</b>		BDL	0.0002	0.002	<b>NOTE: THIS WAS SPECIAL</b>	
<b>Atrazine</b>		BDL	0.0001	0.003	<b>SAMPLING FOR NITRATES</b>	
<b>Simazine</b>		BDL	0.00006	0.004	<b>NOT THE ANNUAL SAMPLE.</b>	
<b>Metolachlor</b>		BDL	0.0002			
<b>Aldicarb</b>		BDL	0.0005			
<b>Carbofuran</b>		BDL	0.0009	0.04		
<b>2,4-D</b>		BDL	0.0001			
<b>Glyphosate</b>		BDL	0.006	0.7		
<b>Special sampling for the above completed 5/9/12</b>						
<b>ALL OTHER SOC's IN 0400-45-01 ARE WAIVERED BECAUSE OF LACK OF USE IN THE AREA.</b>						
<b>INORGANIC CHEMICALS</b>						
		Results	Detection Limit	MCL	Date	ESC SAMPLE #
<b>Abestos</b>		BDL	0.17	7 Million Fibers per Liter	1/23/2012	L556979
<b>ABESTOS MUST BE SAMPLED ONCE IN THE 9 YEAR COMPLIANCE CYCLE OF 2011-2019</b>						
<b>ABESTOS MUST BE SAMPLED ONCE IN THE 1st 3 YEAR COMPLIANCE PERIOD OF EACH 9 YEAR CYCLE</b>						
<b>SAMPLE DUE AGAIN IN 2021</b>						
		Results		MCL	Date	ESC SAMPLE #
<b>Nitrate</b>		0.463		10	1/1/2019	L1057356
<b>Nitrate for special sampling</b>		0.304		10	2/2/2007	L887409
<b>(NITRATE IS ANNUAL SAMPLING)</b>						
<b>MUST BE IN FIRST QUARTER OF EACH YEAR</b>						
		Results		MCL	Date	ESC SAMPLE #
<b>Sodium</b>		22.6		none	1/1/2019	L1057353
<b>Rule 0400-45-01-.24(3) Notify local and State health officials/3 months</b>						
<b>(SODIUM IS ANNUAL SAMPLING)</b>						
		Results on site	Results at independent lab	MCL		ESC SAMPLE #
<b>FLUORIDE</b>		0	ND	2	1/1/2019	L1057354
Fluoride				2		
Fluoride				2		
Fluoride				2		
<b>FLUORIDE IS QUARTERLY SAMPLING</b>						
<b>LT2 ROUND 1</b>						
<b>MARCH 2010 SAMPLES COMPLETED THE LT2 ROUND 1 COMPLIANCE</b>						
<b>RESULTS WERE &lt;0.075 OOCYSTS FOR ROUND 1 OF LT2.</b>						
<b>With the results of &lt;0.075 we require any additional treatment (bin 1), rule 1200-5-1-.39(11)(b)(2).</b>						
<b>LT2 ROUND 2 START 10/15/16.</b>						
	Results E-coli	Results-crypto		Limit	Date	ESC SAMPLE #
Cryptosporidium FS		0			10/5/2016	1863887
E.Coli	<1					
Cryptosporidium FS		0			11/3/2016	L870323-01
E.Coli		1				
SPIKE SAMPLE	SPIKE	64.40%		13-111%	11/3/2016	L870323-02
Cryptosporidium FS		0			12/7/2016	L876889
E.Coli		1				
Cryptosporidium FS		0			1/4/2017	L881856

E.Coli		12							
Cryptosporidium FS			0				2/2/2017	L887397	
E.Coli		9							
Cryptosporidium FS			0				3/2/2017	L893317	
E.Coli		2							
Cryptosporidium FS			0				4/5/2017	L900565	
E.Coli		5.2							
Cryptosporidium FS			0				5/3/2017	L906560	
E.Coli		4.1							
Cryptosporidium FS			0				6/7/2017	L914227	
E.Coli		4.1							
Cryptosporidium FS			0				7/5/2017	L920282	
E.Coli		5.2							
Cryptosporidium FS			0				8/16/2017	L929797	
E.Coli		<1							
Cryptosporidium FS			0				9/6/2017	L934117	
E.Coli		<1							
Cryptosporidium FS			0				10/4/2017	L941145	
E.Coli		1							
Cryptosporidium FS			0				11/2/2017	L948007	
E.Coli		2							
Cryptosporidium FS			0				12/6/2017	L955403	
E.Coli		1							
Cryptosporidium FS			0				1/3/2018	L960841	
E.Coli		12.1							
Cryptosporidium FS			0				2/7/2018	L968331	
E.Coli		1							
Cryptosporidium FS			0				3/7/2018	L975397	
E.Coli		14.8							
Cryptosporidium FS			0				4/4/2018	L982877	
E.Coli		6.3							
Cryptosporidium FS			0				5/2/2018	L990311	
E.Coli		1							
Cryptosporidium FS			0				6/6/2018	L999411	
E.Coli		1							
Cryptosporidium spike			45.9% recovery		13-111%		6/6/2018	L999411	
spike samples are every	20th sample, due June 2018								
Cryptosporidium FS			0				7/5/2018	L1006826	
E.Coli		12.1							
Cryptosporidium FS			0				8/2/2018	L1014108	
E.Coli		2							
Cryptosporidium FS			0				9/5/2018	L1022986	
E.Coli		3							

LT2 ROUND 2 FINISHED 9/5/18. NO (0.00) CRYPTO WAS FOUND IN THE 24 SAMPLES REQUIRED.  
USEPA Bin classification remains at 1. NO FURTHER TREATMENT TECHNIQUES REQUIRED AT THIS TIME.

**TOC Removal**

	required TOC removal in %	settled alk.	removal %	raw results	temperature/coa gulant in ppm's	finished water results	Date	ESC SAMPLE #	corresponding DBP/thm
Jan	25	34	59.25%	2.40	12/38.4	0.98	1/1/2019	L1057358	0.0398
Jan	25	23	54.62%	1.97	11/37.7	0.89	1/22/2019	L1065784	0.0264
Jan	35	16	61.46%	1.85	11/39.1	0.71	1/29/2019	L1065794	0.0186
Feb	35	16	60.00%	1.84	10/39.3	0.74	2/1/2019	L1067295	0.0181
Feb	35	19	62.17%	2.53	13/45.7	0.96	2/8/2019	L1070093	0.0459
Feb	35	19	55.12%	1.70	12/52.1	0.76	2/10/2019	L1070096	0.0339
Feb	35	22	59.72%	1.76	12/55.9	0.71	2/18/2019	L1071879	0.0317
Feb	35	22	65.94%	1.87	12/55.2	0.64	2/19/2019	L1071886	0.0165

Goal for TOC removal is >60% with an alkalinity reduction of 64% or >.  
Alkalinity reduction must be watched close when settled alk is 15 or <.

**TOC's sampled at least monthly and/or after any treatment technique change**

Primary Inorganics							
Primary Inorganics must be sampled once during the compliance period of 2014-2016. Due again in 2022-2024 compliance period. By letter dated 12/11/14 for a nine year date							
Inorganics		detection limit mg/l	MCL	Date	ESC SAMPLE #		
Arsenic	BDL	0.001	0.01	4/1/2015	L756957		
Barium	0.016	0.005	2				
Cadium	BDL	0.001	0.005				
Chromium	BDL	0.01	0.1				
Cyanide	BDL	0.005	0.2				
Fluoride	BDL	0.1	4				
Mercury	BDL	0.0002	0.002				
Nickel	BDL	0.02	0.1				
Selenium	BDL	0.001	0.05				
Antimony Total	BDL	0.001	0.006				
Beryllium Total	BDL	0.001	0.004				
Thallium Total	BDL	0.001	0.002				
Secondary Contaminants must be sampled once during the compliance period of 2014-2016. Due again in 2022-2024 compliance period. By letter dated 12/11/14 for a nine year date							
Secondary inorganics		detection limit mg/l	MCL	Date	ESC SAMPLE #		
Aluminum	BDL	0.1	0.2	4/1/2015	L756957		
Chloride	37.00	1	250				
Copper	BDL	0.02	1				
Iron	BDL	0.1	0.3				
Manganese	BDL	0.01	0.05				
Silver	BDL	0.01	0.1				
Sulfate	6.4	5	250				
MBAS	0.044	0.025	0.5	4/16/2015	L759634		
Zinc	BDL	0.05	5				
Color	1	1	15				
Odor	1	1	3				
pH	8.06	6.5--8.5 varies with corrosion control					
Dissolved Solids	140	10	500	6/2/2015	L768733		
Sodium	18	1	none				
Chemical Analysis	Use	Minimum Detection Level (NG/L,PPT)	Concentration (ng/L,ppt)				
DEET	INSECT REPELLANT	10	BDL				
Diethyl phthalate	PLASTICIZER	10	16.2				
4-tert-Octylphenol	nonionic detergent metabolite	10	BDL				
Ibuprofen	non-steroidal-anti-inflammatory	1000	BDL				
Cotinine	nicotine metabolite	50	BDL				
Atrazine	herbicide	10	BDL				
Caffeine	stimulant	10	BDL				
4-nonylphenol	nonionic detergent metabolite	10	BDL				
Fluoxetine	antidepressant (Prozac)	50	BDL				
Fluoranthene	PAH	4	BDL				
Triclosan	antiseptic	250	BDL				
Bisphenol A	plasticizer	100	BDL				
Caramazepine	anticonvulsant	100	BDL				
Sertraline	antidepressant (Zoloft)	10	BDL				
Coprostanol	fecal steroid	75	142.8				
Estrogenic+		0.5	BDL				
Androgenic		9	BDL				
Toxicity			>62.5X				
Date of samples, 3/29/2011. Taken from raw water source.							

Unregulated Contaminant Monitoring Regulation 1				Date	ESC SAMPLE #
Perchlorate		BDL		2/5/2002	L67315-01
Methyl tert-butyl ether		BDL		2/5/2002	
Nitrobenzene		BDL		2/5/2002	
DCPA Acid Degradates		BDL		2/5/2002	
2,4-Dinitrotoluene		BDL		2/5/2002	
4,4-DDE		BDL		2/5/2002	
2,6-Dinitrotoluene		BDL		2/5/2002	
Acetochlor		BDL		2/5/2002	
EPTC (Eptam)		BDL		2/5/2002	
Molinate		BDL		2/5/2002	
Terbacil		BDL		2/5/2002	
First round completed in 2002 per EPA requirements.					
None of the contaminants were present.					
<b>COMPLETED UCMR 1 2/5/2002</b>					
<b>Unregulated Contaminant Monitoring Regulation 2</b>				result	NLS project
Dimethoate		ND		3/3/2009	128949
Terbufos sulfone		ND		3/3/2009	
2,2',4,4'-tetrabromo-diphenyl ether (BDE-47)		ND		3/3/2009	
2,2',4,4',5-pentabromo-diphenyl ether (BDE-99)		ND		3/3/2009	
2,2',4,4',5,5'-hexabromobiphenyl (HBB)		ND		3/3/2009	
2,2',4,4',5,5'-hexabromodiphenyl ether (BDE-153)		ND		3/3/2009	
2,2',4,4',6-pentabromo-diphenyl ether (BDE-100)		ND		3/3/2009	
1,3-dinitrobenzene		ND		3/3/2009	
2,4,6-trinitrotoluene (TNT)		ND		3/3/2009	
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)		ND		3/3/2009	
Dimethoate		ND		6/15/2009	132978
Terbufos sulfone		ND		6/15/2009	
2,2',4,4'-tetrabromo-diphenyl ether (BDE-47)		ND		6/15/2009	
2,2',4,4',5-pentabromo-diphenyl ether (BDE-99)		ND		6/15/2009	
2,2',4,4',5,5'-hexabromobiphenyl (HBB)		ND		6/15/2009	
2,2',4,4',5,5'-hexabromodiphenyl ether (BDE-153)		ND		6/15/2009	
2,2',4,4',6-pentabromo-diphenyl ether (BDE-100)		ND		6/15/2009	
1,3-dinitrobenzene		ND		6/15/2009	
2,4,6-trinitrotoluene (TNT)		ND		6/15/2009	
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)		ND		6/15/2009	
Second round completed in 2009 per EPA requirements.					
None of the contaminants were present.					
<b>COMPLETED THE UCMR 2 6/15/2009</b>					
<b>Unregulated Contaminant Monitoring Regulation 3</b>				Date	Date
<b>Sample point is Plant effluent</b>				5/14/2014	8/12/2014
		ug/L	NSL project	NSL project	
			218926		22494
<b>Metal digestion-total recov.ICP-MS</b>		YES		YES	
<b>1,4-Dioxane</b>		ND		ND	
<b>Chlorate</b>			100	ND	
<b>Chromium</b>			0.4	0.52	
<b>Cobalt</b>		ND		ND	
<b>Hexavalent Chromium</b>			0.38	0.6	
<b>Molybdenum</b>		ND		ND	
<b>Perfluorobutanesulfonic acid (PFBS)</b>		ND		ND	
<b>Perfluoroheptanoic acid (PFHpA)</b>		ND		ND	
<b>Perfluorohexanesulfonic acid (PFHxS)</b>		ND		ND	
<b>Perfluorooctanoic acid (PFOA)</b>		ND		ND	
<b>Perfluorononanoic acid (PFNA)</b>		ND		ND	
<b>Perfluorooctanesulfonic acid (PFOS)</b>		ND		ND	
<b>Solid Phase Extraction method 522</b>		YES		YES	
<b>Solid Phase Extraction method 537</b>		YES		YES	
<b>Strontium</b>			76	84	
<b>VOC's</b>					
<b>Vanadium</b>		ND		ND	

1,1-Dichloroethane	VOC			ND		ND	
1,2,3-Trichloropropane				ND		ND	
1,3-butadiene				ND		ND	
Bromochloromethane	THM			ND		ND	
Bromomethane				ND		ND	
Chlorodifluoromethane	FREON 22			ND		ND	
Chloromethane				ND		ND	
<b>Sample point is MP 14 Max site</b>				Date sampled		Date sampled	
				5/14/2014	NSL project	8/12/2014	NSL project
				ug/L	218926		22494
<b>Metal digestion-total recov.ICP-MS</b>				YES		YES	
Chlorate				110		ND	
Chromium				0.38		0.521	
Cobalt				ND		ND	
Hexavalent Chromium				0.38		0.569	
Molybdenum				ND		ND	
Strontium				75		83.406	
Vanadium				ND		ND	
<b>Unregulated Contaminant Monitoring Regulation 3</b>				<b>Date</b>		<b>Date</b>	
<b>Sample point is Plant effluent</b>				11/11/2014	NSL project	2/11/2015	NSL project
					231066		235343
<b>Metal digestion-total recov.ICP-MS</b>				YES		YES	
1,4-Dioxane				ND		ND	
Chlorate				ND		ND	
Chromium					0.34	ND	
Cobalt				ND		ND	
Hexavalent Chromium					0.21	0.12	
Molybdenum				ND		ND	
Perfluorobutanesulfonic acid (PFBS)				ND		ND	
Perfluoroheptanoic acid (PFHpA)				ND		ND	
Perfluorohexanesulfonic acid (PFHxS)				ND		ND	
Perfluorooctanoic acid (PFOA)				ND		ND	
Perfluorononanoic acid (PFNA)				ND		ND	
Perfluorooctanesulfonic acid (PFOS)				ND		ND	
Solid Phase Extraction method 522				YES		YES	
Solid Phase Extraction method 537				YES		YES	
Strontium					100		84
VOC's							
Vanadium				ND		ND	
1,1-Dichloroethane				ND		ND	
1,2,3-Trichloropropane				ND		ND	
1,3-butadiene				ND		ND	
Bromochloromethane				ND		ND	
Bromomethane				ND		ND	
Chlorodifluoromethane				ND		ND	
Chloromethane				ND		ND	
<b>Sample point is MP 14 Max site</b>				11/11/2014	NSL project	2/11/2015	NSL PROJECT
					231066		235343
<b>Metal digestion-total recov.ICP-MS</b>				YES		YES	
Chlorate				ND		ND	
Chromium					0.32	0.21	
Cobalt				ND		ND	
Hexavalent Chromium					0.25	0.14	
Molybdenum				ND		ND	
Strontium					110		87
Vanadium				ND		ND	
Third round completed in 2015 per EPA requirements.							
<b>COMPLETED UCMR3 2/11/2015</b>							
<b>Unregulated Contaminant Monitoring Regulation 4</b>				(START AUGUST 2018)			
<b>Sample point is Plant effluent</b>							



<b>Radio Chemicals waived until compliance 2014-2016</b>							
	results	in	detetion	in	Date	ESC SAMPLE #	
	Ci/l		limits				
	Ci/l		Ci/l				
Gross Alpha	1.0		3		8/1/2014	L713630	
Gross Alpha-2 Sigma	0.4				8/1/2014		
Radium 226	1.0		1		8/1/2014		
Radium 226-2 Sigma	0.4				8/1/2014		
Radium 228	BDL		1		8/1/2014		
Radium 228-2 Sigma	0.28				8/1/2014		
<b>LEAD</b>							
<b>LEAD action level 0.015 mg/l</b>	90th % or site #27		0.00207		July 2017	ESC SAMPLE #	
average results for 30 tier 1 sites			0.010004		July 2017	L924071-01--30	
Site #30 had a 0.0508 mg/l lead, only site over the 0.015 action level							
<b>COPPER</b>							
<b>COPPER action level 1.3 mg/l</b>	90th % or site #27		0.097		July 2017		
average results for 30 tier 1 sites			0.08843		July 2017		
Site #30 had a 0.819 mg/l copper, therefore all sites under the 1.3 action level							
LEAD AND COPPER COMPLIANCE DATE EACH 3 YEARS IN A COMPLIANCE PERIOD STARTING IN 1992. NEXT PERIOD IS 2017-2019. SCHEDULED FOR JUNE-SEPT. 2020. MAY BE ANY JUNE-SEPT PERIOD							
LEAD AND COPPER COMPLIANCE DATE EACH 3 YEARS IN A COMPLIANCE PERIOD STARTING IN 1992 MAKES THE COMPLIANCE PERIOD ONE YEAR OFF OF THE OTHER COMPLIANCE PERIODS DEFINED BY THE STATE.							
Due July 2020?							
Total Trihalomethanes (THM's) are the sum total of four compounds formed when chlorine is added in the presence of natural organic matter (NOM's). The MCL for the summation of the four compounds is 80 parts per million (ppm's). These four compounds are Chloroform, Bromodichloromethane, Chlorobromomethane, and Bromoform.							
For the calendar year of 2018 (previous 4 quarters for 16 sites) we averaged 36.6 ppm's with 68 ppm's as the high and 16.3 ppm's as the lowest.							
Total Halogenated Acids (HAA's) are the sum total of five compounds formed in the presence of chlorine and NOM. The MCL for the summation of the five compounds is 60 ppm's.							
The five compounds are Bromoacetic acid, Chloroacetic acid, Dibromoacetic acid, Dichloroacetic acid, and Trichloroacetic acid.							
For the calendar year of 2018 (previous 4 quarters for 16 sites) we averaged 16.2 ppm's with 25.7 ppm's as the high and 9.86 ppm's as the lowest.							
<b>SUMMARY OF PARENT SYSTEM DATA FOR 2019 TITLED AS FOLLOWS:</b>							
<b>PLANT AND DIST. DATA SUMMARY FOR 2019</b>							
	EFFLUENT TURBIDTY				BACTERIA ANALYSIS		
2019	#TAKEN	LOW	HIGH	AVG	# TAKEN	#POS	#REPEATS
Jan	186	0.05	0.1	0.0569	87	0	0
Feb	168	0.03	0.10	0.0579	82	0	0
March							
April							
May							
June							
July							
August							
Sept							
Oct							
Nov							
Dec							
Total	354				169		
<b>PLANT AND DIST. DATA SUMMARY FOR 2019</b>							

2019	CHLORINE RESIDUALS-DIST				FLOURIDE DAILY PLANT AND DIST			
	#TAKEN	LOW	HIGH	AVG	#TAKEN	LOW	HIGH	AVG
Jan	87	1.7	3.0	2.61	0	0	0.00	0
Feb	82	1.3	3.1	2.64	0	0	0.00	0
March								
April								
May								
June								
July								
August								
Sept								
Oct								
Nov								
Dec								
Total	169				0			

**PLANT AND DIST. DATA SUMMARY FOR 2019**

2019	HARDNESS				HIGHEST pH of FINISHED WATER LEAVING THE PLANT			
	#TAKEN	LOW	HIGH	AVG	#TAKEN	LOW	HIGH	AVG
Jan	31	71	82	60	186	8.0	8.5	8.2
Feb	28	65	70	60	168	8.0	8.5	8.2
March								
April								
May								
June								
July								
August								
Sept								
Oct								
Nov								
Dec								
Total	59				354			