NAME OF THE WATER UTILITY City of Alcoa

NAME OF THE WATER TREATMENT PLANT Alcoa Membrane WTP

COUNTY Blount PWSID# 0000007

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Water Supply

COMPREHENSIVE MONTHLY OPERATION REPORT

MAY 05 2023

April-2023

Date	Log Removal Values						Filter Operation Data (NOTE: ALL TMP VALUES ARE NEGATIVE)								Disinfection and CT Values												Microbiological Examinations Plant & Distibution									
															First Disinfection Sequence					Second Disinfection Sequence																	
	Train 1	Train 2	Train 3	Train 4	Train 5	Train 6	Plant Hours	Train 1 - TMP, psi	Train 2 - TMP, psi	Train 3 - TMP, psi	Train 4 - TMP, psi	Train 5 - TMP, psi	Train 6 - TMP, psi	Reject Gallons (x 1000)	C Free Cl2 - End of Sequence	T Contact Time in Minutes	PH - End of Seqence	CT - Calculated	CT - Required	C Free Cl2 - End of Sequence	T Contact Time in Minutes	PH - End of Seqence	CT - Calculated	CT - Required	Total Inactivation Ratio CT Calc / CT Req		Dist Sample 1 CFU	Dist Sample 2 CFU	Dist Sample 3 CFU	Free Cl_2 mg/L Sample site #1	Sample site # 1	Free Cl2 mg/L Sample site #2	Sample site # 2	Free Cl2 mg/L Sample Site #3	Sample site #3
1	4.48	4.52	4.45	4.61	4.50	4.43	17	1.86	1.47	2.39	1.74	1.96	2.06	593						2.10	126	8.2	263.9	37	7.1											
2	4.53	4.60	4.42	4.59	4.47	4.42	16	1.90	1.53	2.33	1.73	1.98	2.18	581						2.00	126	8.1	251.3	25	10.1											
3	4.54	4.62	4.44	4.62	4.50	4.56	24	1.87	1.49	2.51	1.67	1.85	1.96	694						2.10	144	8.0	301.6	20	15.1		Neg	Neg	Neg	1.80	218 Amy Dr.	2.29	1450 Dalton St.	2.36	460 Defoe Cir.
4	4.56	4.65	4.60	4.65	4.47	4.45	24	1.78	1.37	2.24	1.67	1.85	2.04	671						2.00	168	8.0	335.1	30	11.2		Neg	Neg	Neg	1.89	1217 Applecreek Dr.	1.91	1102 Grant St.	1.94	1047 Brighton Dr.
5	4.62	4.49	4.65	4.60	4.51	4.28	24	1.81	1.43	1.58	1.69	1.95	2.14	820						2.00	126	8.1	251.3	25	10.1		Neg	Neg	Neg	2.06	547 Wedgewood Dr.	2.09	444 Link Dr.	2.15	1722 Maplecrest Dr.
6	4.54	4.65	4.63	4.63	4.51	4.47	24	1.73	1.34	1.52	1.63	1.81	2.00	755						2.00	144	8.2	287.2	25	11.5		Neg	Neg	Neg	2.28	4074 Glenmore Dr.	1.87	6280 Sierra Cir.	2.24	3636 Chambers Rd.
7	4.59	4.65	4.64	4.61	4.52	4.47	24	1.54	1.49	1.58	1.68	2.02	2.00	706						2.00	144	8.0	287.2	20	14.4											
8	4.59	4.65	4.64	4.63	4.50	4.47	14	1.36	1.03	1.30	1.30	1.51	1.58	386						2.10	168	8.0	351.8	20	17.6											
9	4.60	4.65	4.64	4.64	4.52	4.49	24	1.38	1.38	1.26	1.54	1.57	1.66	387						2.10	168	8.0	351.8	20	17.6											
10	4.58	4.65	4.64	4.61	4.52	4.49	24	1.71	1.73	1.43	1.53	1.75	1.83	705						2.10	144	8.1	301.6	37	8.2		Neg	Neg	Neg	2.07	4209 W. Lakeview Cir.	2.14	2048 Stonybrook Rd.	2.14	35.785917, -84.007724
11	4.61	4.65	4.64	4.63	4.52	4.49	24	1.61	1.36	1.42	1.89	1.78	1.82	698						2.00	144	7.9	287.2	20	14.4		Neg	Neg	Neg	2.07	4612 Airport Hwy.	1.98	2020 N. Wright Rd.	2.20	162 Cusick Rd.
12	4.63	4.65	4.63	4.65	4.41	4.46	23	1.34	0.98	1.48	1.28	1.79	1.89	725						1.90	119	7.9	226.6	20	11.3		Neg	Neg	Neg	1.67	223 Associates Blvd.	2.17	4077 Glenmore Dr.	2.13	3568 Chambers Rd.
13	4.57	4.65	4.63	4.62	4.50	4.48	24	1.88	1.13	1.68	1.73	1.99	2.08	779						2.10	135	7.9	284.2	20	14.2		Neg	Neg	Neg	2.14	3525 Central Park Blvd.	2.03	4472 Deer Run Dr.	1.96	771 Louisville Rd.
14	4.56	4.65	4.63	4.61	4.50	4.46	19	1.92	1.23	1.78	1.56	2.15	2.15	657						2.10	119	7.9	250.5	20	12.5					2.11	220 Associates Blvd.				
15	4.59	4.65	4.61	4.63	4.56	4.48	24	1.93	1.23	1.80	1.86	2.14	2.25	829						2.00	119	7.8	238.5	20	11.9											
16	4.56	4.65	4.61	4.60	4.51	4.44	24	1.51	0.98	1.40	1.71	1.93	1.95	756						2.00	144	7.8	287.2	20	14.4											
17	4.55	4.65	4.63	4.61	4.51	4.49	24	1.39	1.30	1.40	1.48	1.69	1.73	716						2.10	156	7.9	328.4	20	16.4		Neg	Neg	Neg	1.72	273 Joule St.	1.92	124 N. Hall Rd.	2.32	110 Tyson Blvd. Suite 200
18	4.63	4.65	4.63	4.61	4.51	4.49	24	1.35	1.68	1.72	1.83	2.09	2.09	763						2.10	141	8.0	295.6	20	14.8		Neg	Neg	Neg	2.18	220 Associates Blvd.	2.07	2810 Airport Hwy.	1.92	35.800503, -83.887153
19	4.41	4.65	4.63	4.65	4.52	4.48	21	1.28	1.32	1.66	1.56	2.03	1.84	723						2.20	135	8.0	297.7	21	14.2					2.09	4612 Airport Hwy.				
20	4.57	4.65	4.59	4.59	4.49	4.46	24	1.24	1.04	1.48	1.56	1.78	1.83	765						2.00	135	8.0	270.7	20	13.5					2.06	3568 Chambers rd				
21	4.56	4.65	4.60	4.58	4.49	4.46	24	1.07	1.07	1.45	1.51	1.48	1.53	751						1.90	135	8.0	257.1	20	12.9					2.09	2923 Old Knoxville Hwy				
22	4.51	4.63	4.59	4.60	4.40	4.46	24	1.23	0.98	1.43	1.45	1.65	1.87	747						2.00	112	8.0	223.4	20	11.2											
23	4.58	4.64	4.59	4.56	4.49	4.44	24	1.18	0.91	1.35	1.46	1.67	1.97	674						2.00	144	7.9	287.2	20	14.4											
24	4.58	4.65	4.58	4.58	4.49	4.46	24	1.29	1.04	1.45	1.54	1.72	1.78	775						1.90	144	7.9	272.9	20	13.6					2.27	460 Defoe Cir.				
25	4.58	4.65	4.59	4.57	4.41	4.46	24	1.31	1.02	1.48	1.53	1.73	1.79	777						2.10	144	8.0	301.6	20	15.1					1.97	1217 Applecreek Dr.				
26	4.59	4.65	4.58	4.58	4.41	4.40	24	1.33	1.25	1.68	1.73	1.98	2.05	829						2.10	130	8.0	273.7	20	13.7					1.93	2915 Patrick Ave.				
27	4.56	4.63	4.56	4.56	4.45	4.43	24	1.21	1.48	1.67	1.75	1.94	2.01	762						2.10	112	7.9	234.6	30	7.8					1.45	247 E. Watt St.				
28	4.58	4.65	4.59	4.56	4.47	4.45	15	1.38	1.11	1.53	1.59	1.82	1.83	508						2.00	112	7.9	223.4	30	7.4					2.01	223 Associates Blvd.				
29	4.57	4.65	4.61	4.58	4.47	4.34	24	1.27	0.94	1.47	1.80	1.69	1.75	740						2.00	144	7.8	287.2	20	14.4										
30	4.57	4.65	4.57	4.58	4.48	4.45	24	1.46	1.26	1.61	1.66	1.85	1.93	828						2.00	126	7.9	251.3	20	12.6										
31																																				
TOT	136.99	139.08	137.84	138.14	134.61	133.61	677	45.12	37.57	49.08	48.66	55.15	57.59	21102						61.1	4103	239	8361.9	680	383.3					37.86		20.47		21.36	
AVE	4.57	4.64	4.59	4.60	4.49	4.45	23	1.50	1.25	1.64	1.62	1.84	1.92	703						1.97	136.77	7.71	278.73	22.67	12.78					1.99		2.05		2.14	
MAX	4.63	4.65	4.65	4.65	4.56	4.56	24	1.93	1.73	2.51	1.89	2.15	2.25	829						2.2	168	8.2	351.8	37	17.6					2.28		2.29		2.36	
MIN	4.41	4.49	4.42	4.56	4.40	4.28	14	1.07	0.91	1.26	1.28	1.48	1.53	386						1.9	111.7	7.8	223.4	20.0	7.1					1.45		1.87		1.92	

COST OF PRODUCTION	
(a) Cost of Personnel	$78,591
(b) Cost of Chemicals	$7,596
(c) Cost of Energy	$42,083
(d) Insurance & Misc. Cost	$19,651
(e) Total Production Cost	$147,921
(f) Cost per MG Water Treated	$704.45

(a) Type of Filters	Membrane Vacuum
(b) Number of Filter Trains	6
(c) Filter Area - Sq Ft. (each)	76160
(d) Total Area - Sq Ft.	456960
(e) Filter Rate, gfd	35.0
(f) Filter Rate, gfd Total Rated	
(g) Filter Capacity	16,000,000
GPM	1,111

REMARKS: _____

NAME OF THE WATER UTILITY City of Alcoa

NAME OF THE WATER TREATMENT PLANT Alcoa Membrane WTP

COUNTY Blount PWSID# 0000007

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION

Division of Water Supply

COMPREHENSIVE MONTHLY OPERATION REPORT

MAY 0 5 2023

Month/Year: April-2023

Date	Raw water treated X 1000 Gallons	Finished water X 1000 Gallons	Permeate water X 1000 Gallons	PHYSICAL AND CHEMICAL CHARACTERISTICS																		CHEMICALS USED													
				Raw Water Temperature °C	Turbidity NTU							Cl_2 mg/L		Alkalinity mg/L		Hardness mg/L			pH			Fluoride mg/L			Calculated Dosages mg/L							Pounds per 24 Hours						
					Raw Turbidity NTU	FINISHED WATER TURBIDITY MUST BE MEASURED EVERY 4 HOURS AND RECORDED AM			PM			Top of Filter	Lowest Plant Effluent	Total Raw	Total Finished	Raw	Finished		Raw	Mixed	Finished	Raw	Finished	Distribution	ACH	Pre Cl_2	Post Cl_2	Fluoride	Caustic Soda			ACH	Pre Cl_2	Post Cl_2	Fluoride	Caustic Soda		
						12-4	4-8	8-12	12-4	4-8	8-12																										
1	5860	5300	5750	15	22	OFF	.02	.01	.01	.01	.01		2.08	64	67	65	68		7.9	7.8	8.1		.79		7		3.00	0.60	2.1			342		144	151	403		
2	5780	5240	5320	16	31	.02	.02	.01	OFF	.02	.01		1.99	59	65	63	56		7.7	7.8	8.0		.79		9		3.30	0.60	2.2			434		146	140	390		
3	6910	6220	6340	14	8	.02	.01	.02	.02	.01	.01		2.08	58	59	60	60		7.8	7.7	8.0	0.02	.70	.66	6		3.10	0.60	2.2			346		164	167	465		
4	6670	6000	6180	13	6	.01	.01	.01	.01	.01	.02		1.95	67	63	68	65		7.9	7.6	8.0		.67	.66	6		3.00	0.60	2.1			334		155	163	433		
5	8160	7320	7530	17	6	.02	.01	.02	.02	.02	.02		2.02	64	63	63	63		7.7	7.6	8.1		.69	.66	6		3.00	0.60	2.0			408		188	198	502		
6	7520	6810	6940	18	6	.02	.02	.02	.02	.02	.02		2.00	65	64	66	65		7.6	7.7	8.0		.69	.65	6		2.90	0.60	1.5			376		168	183	347		
7	7030	6340	6900	17	6	.02	.02	.02	.02	.02	.02		1.95	68	66	67	68		7.6	7.7	8.0		.69		6		3.00	0.60	1.4			352		173	182	322		
8	3830	3470	3550	16	6	.02	.02	OFF	OFF	.02	.02		2.06	69	64	69	69		7.6	7.7	8.0		.71		6		3.10	0.60	1.4			192		92	93	166		
9	3830	3470	6190	14	7	.02	.02	.03	.03	.02	.02		2.06	60	61	62	62		7.6	7.7	8.0		.72		6		3.20	0.60	1.4			192		165	163	289		
10	7020	6290	6410	14	6	.02	.02	.02	.02	.02	.01		2.12	62	62	68	68		7.7	7.7	8.0	0.13	.67	.66	6		3.10	0.60	0.6			351		166	169	128		
11	6950	6210	6400	15	5	.01	.01	.01	.02	.02	.02		1.96	60	63	61	59		7.7	7.7	7.8		.66	.64	6		3.00	0.60				348		160	169			
12	7220	6570	6700	15	4	.02	.02	.02	.02	.02	.02		1.93	58	57	58	58		7.7	7.7	7.8		.65	.54	6		3.00	0.60				361		168	176			
13	7760	7020	7180	15	5	.02	.02	.02	.02	.02	.02		2.10	58	57	58	57		7.9	7.7	7.8		.66	.63	7		3.00	0.60				453		180	189			
14	6540	5950	6080	16	6	.02	.02	.02	.02	.02	.02		2.08	57	57	58	57		7.9	7.6	7.8		.68	.63	6		2.90	0.60				327		147	160			
15	8270	7460	7550	16	30	.02	.02	.02	.02	.02	.02		2.02	70	71	66	67		8.0	7.5	7.7		.70		8		3.20	0.60	1.0			552		201	199	252		
16	7530	6840	6950	17	11	.02	.02	.02	.02	.02	.02		1.95	71	67	74	76		8.0	7.6	7.8		.67		6		3.30	0.60	1.0			377		191	183	232		
17	7130	6120	6230	12	8	.02	.02	.02	.02	.02	.02		2.12	65	65	64	66		7.9	7.7	7.9	0.06	.66	.56	6		3.20	0.60	1.0			357		166	164	208		
18	7590	6490	6694	16	7	.02	.02	.02	.02	.02	.02		2.10	65	64	66	64		7.9	7.8	7.9		.70	.60	6		3.10	0.60	1.0			380		173	176	223		
19	7150	6440	6580	16	6	.02	.02	.02	.02	.02	.02		2.17	72	67	76	75		7.9	7.8	7.9		.73	.62	6		3.00	0.60				358		165	173			
20	7620	6880	6970	17	5	.02	.02	.02	.02	.02	.02		1.98	71	73	72	71		8.0	7.8	7.9		.74	.57	6		2.90	0.60				381		169	184			
21	7480	6760	6980	18	5	.02	.02	.02	.02	.02	.02		1.92	70	68	68	68		8.0	7.8	7.9		.66	.64	6		3.00	0.60				374		175	184			
22	7440	6760	6800	18	6	.02	.02	.02	.02	.02	.02		2.04	70	68	69	68		8.1	7.7	7.9		.61		6		3.00	0.60				372		170	179			
23	6710	6100	6180	17	7	.02	.02	.02	.02	.02	.02		1.95	68	67	67	68		7.8	7.7	7.8		.59		6		3.10	0.60				336		160	163			
24	7720	6990	7130	15	5	.02	.02	.02	.02	.02	.02		1.94	67	67	67	67		8.0	7.8	7.9	0.06	.58	.59	6		3.10	0.60				386		184	188			
25	7740	7000	7140	14	5	.02	.02	.02	.02	.02	.02		2.05	68	68	67	68		8.1	7.8	7.9		.61	.65	6		3.10	0.60				387		185	188			
26	8260	7460	7660	14	4	.02	.02	.02	.02	.02	.02		2.13	68	68	68	69		8.0	7.8	7.9		.62	.63	6		3.00	0.60				413		192	202			
27	7600	6910	6950	14	4	.02	.02	.02	.02	.02	.02		2.12	68	69	68	72		7.8	7.7	7.8		.62	.66	6		3.00	0.60				380		174	183			
28	5050	4590	4610	15	4	.02	.02	.02	.02	OFF	.02		1.95	68	70	67	70		7.8	7.7	7.9		.61	.58	6		3.00	0.60				253		115	121			
29	7360	6640	6820	16	5	.02	.02	.02	.02	.02	.02		2.01	69	68	69	70		7.9	7.7	7.8		.62		6		3.00	0.60				368		171	180			
30	8250	7460	7590	17	5	.02	.02	.02	.02	.02	.02		1.95	71	70	69	68		8.0	7.7	7.8		.61		6		3.00	0.60				413		190	200			
31																																					
TOT	209980	189110	196304	467	240	0.56	0.56	0.55	0.55	0.55	0.56		60.78	1968	1957	1984	1981		235.0	231.2	237.1	.27	20.07	11.83	187		91.6	18.00	20.9			10904		4995	5170	4362		
AVE	6999	6304	6543	16	8	0.02	0.02	0.02	0.02	0.02	0.02		2.03	66	65	66	66		7.8	7.7	7.9	0.07	0.67	0.62	6		3.05	0.60	1.5			363		167	172	312		
MAX	8270	7460	7660	18	31	0.02	0.02	0.03	0.03	0.02	0.02		2.17	72	73	76	76		8.1	7.8	8.1	0.13	0.79	0.66	9		3.30	0.60	2.2			552		201	202	502		
MIN	3830	3470	3550	12	4	0.01	0.01	0.01	0.01	0.01	0.01		1.92	57	57	58	56		7.6	7.5	7.7	0.02	0.58	0.54	6		2.90	0.60	0.6			192		92	93	128		

CHEMICALS USED	BRAND	ANALYSIS	POUNDS USED	COSTS per lb	COSTS per month
ACH	USALCO - DelPAC XG	100%	10904	$0.38500	$4,197.87
Chlorine	CORECHEM, Inc.	100%	4995	$0.3425	$1,710.82
Fluoride	UNIVAR	24%	5170	$0.20300	$1,049.51
Caustic Soda (25%)	UNIVAR	25%	4362	$0.58500	$637.87
				TOTAL	$7,596.07

I certify that the data provided accurately represents the water quality, quantity, treatment, operational practices, and other activities for the reporting period specified herein.

Certified Operator Name Tyrel J. Emory

Certified Operator Signature Tyrel J. Emory

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES, COMPLIANCE AND ENFORCEMENT UNIT
William R. Snodgrass - Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243-1102

MONTHLY MICROBIOLOGICAL and DISINFECTANT MONITORING REPORT

Public Water System Name: City of Alcoa Water Plant
Phone: 865-380-4921
Address: 223 Associates Blvd. Alcoa, TN 37701
County: Blount

Bacteriological Monitoring (1)

PWSID	Contaminant ID	Analysis Method	Sample Period Begin	Sample Period End
0000007	3100	9223	040123	043023

Total Number Of Routine Distribution Samples Analyzed	Total Number Of Positive Samples Analyzed (2)	Total Number Of Repeat Samples Analyzed (2)	Laboratory ID	Laboratory Name
030	000	000	03002	Alcoa Water Plant

Date of First Sample	Date of Last Sample
040323	041823

Disinfectant Residual Monitoring (3)

Lowest Residual Measured (mg/L)	Average Residual Measured (mg/L)	Number of Samples below 0.2 mg/L	% of Samples 0.2 mg/L or higher
1.67	2.06	000	100.0

Notes

(1) This form is to be submitted for systems reporting 10 or more bacteriological compliance samples during the reporting period.

(2) All positive and repeat samples must be reported on Form CN-0800, Bacteriological Analysis Detail.

(3) Systems supplying chlorinated water must monitor disinfectant residuals at the same locations and frequencies as total coliform sampling is required.

Administrative Information

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

Responsible Official: Tyrel J. Emon Phone: (865) 380-4921

Program Contact: _____ Phone: (___) _____

Technical Contact _____ Phone: (___) _____

Return to: Tennessee Division of Water Resources, Compliance and Enforcement Unit, William R. Snodgrass - Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243-1102

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES, COMPLIANCE AND ENFORCMENT UNIT

INTERIM ENHANCED SURFACE WATER TREATMENT RULE
FILTER PERFORMANCE REPORT [1]

MAY 05 2023

PUBLIC WATER SYSTEM NAME AND ADDRESS

City of Alcoa Water Plant
223 Associates Blvd.
Alcoa, TN 37701

PWSID #	ENTRY POINT	SAMPLE PERIOD START DATE	SAMPLE PERIOD END DATE	TOTAL HOURS PLANT OPERATED THIS MONTH	LABORATORY ID
0000007		040123	043023	677	00015

REPORTABLE SAMPLES [2] REQUIRED	REPORTABLE SAMPLES [2] TAKEN	NUMBER OF REPORTABLE SAMPLES LESS THAN OR EQUAL TO THE LOWER NTU STANDARD [3]	PERCENT OF REPORTABLE SAMPLES LESS THAN OR EQUAL TO THE LOWER NTU STANDARD	NUMBER OF REPORTABLE SAMPLES EXCEEDING THE UPPER NTU STANDARD [4] (LIST DATES ON BACK)	HIGHEST FINISHED WATER TURBIDITY THIS MONTH
175	175	175	100.01	000	00.032

Notes:
(1) This form applies to filtration systems utilizing either a surface water supply or a source that has been designated groundwater under the direct influence of surface water.
(2) Systems utilizing cartridge filtration must at a minimum, measure turbidity once per day while treating water. Systems required to measure and record finished water turbidity every 4 hours that the plant is in operation, shall report the highest value measured during each 4-hour period. Systems utilizing continuous monitoring turbidimeters shall report the highest recorded value for every 4 hour period.
(3) NTU standards vary depending on the type of filtration treatment provided, and include a lower limit that must be met in 95% of the reportable samples, and an upper limit that cannot be exceeded without receiving a treatment technique violation. Use the lower NTU standard applicable to this facility for this calculation.
(4) Indicate the number of reportable samples that exceeded the upper NTU standard. On the back of this form, indicate the dates when a sample exceeded the upper NTU standard, and the date the state was notified of the exceedance.

	Y or N
Did this facility meet the CT requirements for each day it was in operation?	Y

A. FOR ALL FILTERS AT THIS FACILITY

	Y or N
1. Was turbidity monitored continuously and the results recorded for each filter effluent line?	Y
2. If the answer to question number 1 is no, was grab sampling conducted for every 4 hours the continuous monitor was out of service?	
3. If the answer to question number 2 is yes, was grab sampling conducted for more than 5 consecutive days on any individual filter?	

B. FOR ANY FILTER AT THIS FACILITY [5]

Were any 2 consecutive filter effluent measurements taken 15 minutes apart:	Y or N	Filter Numbers (maximum of four filters)
1. Greater than 0.5 NTU after the first 4 hours of operation?	N	
2. Greater than 1.0 NTU?	N	
3. Greater than 1.0 NTU in each of 3 consecutive months?	N	
4. Greater than 2.0 NTU in two consecutive months?	N	

Note:
(5) If this facility answered "Yes" to any question listed in Section B. above, then the system must submit a "Monthly Turbidity Exceedance Report" (CN-1196) for the individual filter that met at least one of the conditions listed.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

PREPARED BY: Tyrel J. Emory DATE: 5/1/23 PHONE: (865) 380-4921 APPROVED BY: Tyrel J. Emory DATE: 5/1/23 PHONE: (865) 380-4921

(continued on reverse)

TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES, COMPLIANCE AND ENFORCEMENT UNIT

DISINFECTANT MONITORING REPORT

MAY 05 2023

PUBLIC WATER SYSTEM NAME AND ADDRESS

City of Alcoa Water Plant
223 Associates Blvd.
Alcoa, TN 37701

PWSID # 0 0 0 0 0 0 7

FACILITY ID T P 0 0 1

SAMPLE PERIOD
START DATE (m m d d y y): 0 4 0 1 2 3
END DATE (m m d d y y): 0 4 3 0 2 3

I. SYSTEMS USING CHLORINE OR CHLORAMINES (1)

A. Distribution System Monitoring

Number of Samples Required (1)	Number of Samples Taken	Lowest Residual Measured (mg/L)	Average Residual Measured (mg/L)	Number of Samples below 0.2 mg/L	% of Samples 0.2 mg/L or higher
030	030	1.67	2.06	000	100.0

B. Entry Point Monitoring

Number of Days Residual Measurements Required (2)	Taken	Type of Monitoring Conducted: Grab	Continuous	Lowest Residual Measured (mg/L)	Was the Continuous Chlorine Analyzer out of service more than 5 consecutive days while this facility was in operation? ("Y" for yes, or "N" for no)
30	30		✓	1.92	N

II. SYSTEMS USING CHLORINE DIOXIDE

A. Entry Point Monitoring

Number of Days Residual Measurements Required	Taken	Highest Residual Measured Entering the D.S. (mg/L)	Number of Days Residual Measured > MRDL	Number of Consecutive Days Residual Measured > MRDL
		.		

B. Distribution System Monitoring

1. Systems Not Utilizing Disinfection Booster Stations

Date E.P. Sample Exceeded MRDL	Date of Follow-Up Sampling (3)	Time of First Sample / Result (mg/L)	Time of Second Sample / Result (mg/L)	Time of Third Sample / Result (mg/L)
		.	.	.

2. Systems Utilizing Disinfection Booster Stations

Date E.P. Sample Exceeded MRDL	Date Follow-Up Sampling (4)	Sample Results (mg/L) at: Closest Customer	Average Point	Maximum Residence Time
		.	.	.

Notes:
(1) Disinfection residuals must be measured at the same frequency and locations for all total coliform samples that are taken. The number of required samples is the total number of routine and repeat total coliform samples taken during the reporting period.
(2) Each day of operation, Subpart H systems and True Ground Water Systems serving more than 3,330 persons must measure chlorine residuals continuously at the entry point to the distribution system. Grab sampling may be conducted at the rate specified in the regulations for systems serving less than 3,300.
(3) For systems using chlorine dioxide, and not utilizing booster chlorination facilities in the distribution system, if an entry point sample exceeds the MRDL, a three-sample set of measurements must be taken the day after the exceedance at a point closest to the first customer at six-hour intervals. Analysis must be by Ion Chromatography.
(4) For systems using chlorine dioxide, and which utilize booster chlorination facilities in the distribution system, if an entry point sample exceeds the MRDL, a three-sample set of measurements must be taken the day after the exceedance at the following locations: 1) a point closest to the first customer, 2) a point reflecting the average residence time, and, 3) a point reflecting the maximum residence time. Analysis must be by Ion Chromatography.

I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.

PREPARED BY Tyrel J. Emory DATE 5/1/23 APPROVED BY Tyrel J. Emory DATE 5/1/23

CITY OF ALCOA

PUBLIC WORKS AND ENGINEERING DEPARTMENT
Engineering - Fleet - Landfill - Purchasing - Sanitation
Streets & Stormwater - Water & Wastewater - Water Quality

725 Universal Street, Alcoa, Tennessee 37701 (865) 380-4800 FAX (865) 380-4803

CERTIFIED, RETURN RECEIPT REQUESTED
CONFIRMING FAX

May 1, 2023

Mr. Jeff Bagwell
Department of Environment and Conservation
Division of Water Resources
William R. Snodgrass Tennessee Tower
312 Rosa Parks Avenue, 11th Floor
Nashville, Tennessee 37243

Re: Microbiological Monitoring Report – Filter Performance Report –
Disinfectant Monitoring Report -
Bacteriological Analysis Report- TUD
City of Alcoa Water Treatment Plant - Blount County
PWSID 0000007

Dear Mr. Bagwell:

Enclosed are the Microbiological Monitoring Report, Filter Performance Report, Disinfectant Monitoring Report, and the Bacteriological Analysis Report for Tuckaleechee Utility District, for the month of April 2023 for the City of Alcoa Water Treatment Plant. Please contact me at (865) 380-4921 if additional information is needed.

Sincerely,

Tyrel J. Emory
Supervisor, Alcoa Water Treatment Plant

TJE: kh

Enclosures:
1. Microbiological Monitoring Report
2. Filter Performance Report
3. Disinfectant Monitoring Report
4. Bacteriological Analysis Report - TUD

cc: Shane Snoderly, Public Works Director, City of Alcoa (w/encls.)
Jenna Williams, Knoxville Environmental Field Office (w/encls.)