National Aeronautics and Space Administration

Goddard Space Flight Center
Wallops Flight Facility
Wallops Island, VA 23337-5099

January 9, 2020

eply to Attn of: 250.W

Office of Drinking Water
Attn: Mr. Dixon Tucker
District Engineer
Virginia Department of Health
830 South Hampton Avenue
Norfolk, VA 23510

Subject: December 2019 Water Chlorination and Orthophosphate Reports

Ref: PWSID: 3001500 Main Base, PWSID: 3001535 Mainland/Island, NASA Wallops Flight Facility

In accordance with the Virginia Department of Health Drinking Water Regulations, please find enclosed:

1. December 2019 Chlorination Reports for Main Base and Island Locations (Enclosures 1 and 2)
2. December 2019 Orthophosphate Reports for Main Base and Island Locations (Enclosures 3 and 4)
3. December 2019 Chincoteague Water Readings from Main Base NASA Grid (Enclosure 5)

If you have any questions or comments concerning this report, please contact Mr. Owen Hooks at (757) 824-1941.

For T.J. Meyer
Associate Chief, Medical and Environmental Management Division

5 Enclosures
cc: (w/o encls.)
227/Mr. W. Redmond
250/Mr. R. Hooks

VIRGINIA STATE DEPARTMENT
OF HEALTH
ORTHOPHOSPHATE REPORT

No. of Connections: 38
No. of people served: 400

Year 2019 Month December
County: Accomack
Supply: NASA Wallops Flight Facility
PWSID: 3001535 Mainland(Island)

	Zinc Orthophosphate										
DATE	North End Results			Entry Point		South End Results			Lbs. of solution injected	No. Gal. Water Treated	Comments
	Bldg.	Free	Total	Free	Total	Bldg.	Free	Total			
1	W-71					Y-61			3	18,492	
2	W-71		3.58			Y-61		3.24	3	27,075	
3	W-71					Y-61			4	28,020	
4	W-71		3.63			Y-61		3.50	2	29,348	
5	W-71					Y-61			2	29,700	
6	W-71		3.31			Y-61		3.41	4	47,537	
7	W-71					Y-61			4	29,733	
8	W-71					Y-61			3	29,244	
9	W-71		3.60			Y-61		3.52	3	28,992	
10	W-71					Y-61			3	18,596	
11	W-71		3.37			Y-61		3.50	3	37,142	
12	W-71					Y-61			4	26,420	
13	W-71		3.53			Y-61		3.49	4	24,833	
14	W-71					Y-61			2	17,819	
15	W-71					Y-61			4	37,172	
16	W-71		2.85			Y-61		3.27	2	18,974	
17	W-71					Y-61			3	18,321	
18	W-71		3.07			Y-61		3.29	1	16,801	
19	W-71					Y-61			2	19,267	
20	W-71		3.24			Y-61		3.50	3	23,756	
21	W-71					Y-61			1	10,567	
22	W-71					Y-61			1	11,968	
23	W-71		3.37			Y-61		3.22	1	14,504	
24	W-71					Y-61			4	38,896	
25	W-71		2.71			Y-61		3.19	4	18,479	
26	W-71					Y-61			0	18,574	
27	V-27		3.25			Z-65		3.05	0	18,803	
28	W-71					Y-61			4	28,289	
29	W-71					Y-61			0	19,048	
30	W-71		2.84			Y-61		3.05	1	29,557	
31	W-71					Y-61			1	28,178	
Totals			42.35					43.23	76	764,105	
Min			2.71					3.05	0	10,567	
Max			3.63					3.52	4	47,537	
Ave			3.26					3.33	2	24,649	

Signed: Robert Wilt
Printed Name: Robert Wilt

VIRGINIA STATE DEPARTMENT
OF HEALTH
WATER CHLORINATION REPORT

No. of Connections: 38
No. of people served: 400

Year 2019 Month December
County: Accomack
Supply: NASA Wallops Flight Facility
PWSID: 3001535 Mainland(Island)

DATE	Residual Chlorine								Lbs. of solution injected	No. Gal. Water Treated	Comments
	North End Results			Entry Point		South End Results					
	Bldg.	Free	Total	Free	Total	Bldg.	Free	Total			
1	W-71	1.18		0.88		Y-61	0.92		10	18,492	
2	W-71	1.31	1.60	1.20	1.55	Y-61	1.05	1.07	38	27,075	
3	W-71	1.77		1.28		Y-61	0.71		10	28,020	
4	W-71	0.97		1.39		Y-61	2.02		16	29,348	
5	W-71	1.36		1.60		Y-61	>2.20		6	29,700	
6	W-71	1.32		1.82		Y-61	1.26		26	47,537	
7	W-71	1.36		1.87		Y-61	1.25		0	29,733	
8	W-71	1.20		1.51		Y-61	1.01		22	29,244	
9	W-71	1.53	1.66	1.45	1.67	Y-61	1.20	1.34	9	28,992	
10	W-71	1.49		1.53		Y-61	1.02		15	18,596	
11	W-71	1.44		1.55		Y-61	1.19		21	37,142	
12	W-71	1.38		1.63		Y-61	0.95		11	26,420	
13	W-71	1.40		1.69		Y-61	1.07		30	24,833	
14	W-71	1.32		1.27		Y-61	1.03		8	17,819	
15	W-71	1.15		1.30		Y-61	0.84		20	37,172	
16	W-71	1.00	1.12	1.39	1.43	Y-61	0.88	0.98	12	18,974	
17	W-71	1.03		1.24		Y-61	0.79		10	18,321	
18	W-71	0.89		1.30		Y-61	0.82		0	16,801	
19	W-71	1.01		1.37		Y-61	0.77		14	19,267	
20	W-71	0.94		1.28		Y-61	0.86		12	23,756	
21	W-71	0.68		1.10		Y-61	1.12		12	10,567	
22	W-71	0.81		1.49		Y-61	0.94		0	11,968	
23	W-71	0.86	0.92	1.12	1.35	Y-61	1.04	1.17	8	14,504	
24	W-71	0.95		1.46		Y-61	0.82		26	38,896	
25	W-71	1.04		1.34		Y-61	0.81		8	18,479	
26	W-71	1.00		0.93		Y-61	0.81		14	18,574	
27	V-27	0.95		1.22		Z-65	0.70		8	18,803	
28	W-71	1.01		1.55		Y-61	0.79		14	28,289	
29	W-71	1.14		1.13		Y-61	0.82		8	19,048	
30	W-71	1.00	1.09	1.51	1.77	Y-61	0.80	0.90	24	29,557	
31	W-71			1.71		Y-61	0.94		16	28,178	
Totals		34.49	6.39	43.11	7.77		29.23	5.46	428	764,105	
Min		0.68	0.92	0.88	1.35		0.70	0.90	0	10,567	
Max		1.77	1.66	1.87	1.77		2.02	1.34	38	47,537	
Ave		1.15	1.28	1.39	1.55		0.97	1.09	14	24,649	

Signed: Robert Wilt
Printed Name: Robert Wilt

VIRGINIA STATE DEPARTMENT
OF HEALTH
ORTHOPHOSPHATE REPORT

No. of Connections: 206
No. of people served: 1625

Year 2019 Month December
County: Accomack
Supply: NASA Wallops Flight Facility
PWSID: 3001500 Mainbase

	Zinc Orthophosphate										
DATE	North End Results			Entry Point		South End Results			Lbs. of solution injected	No. Gal. Water Treated	Comments
	Bldg.	Free	Total	Free	Total	Bldg.	Free	Total			
1	D-50					N-162			9	152,000	
2	D-50		1.39			N-162		2.24	9	156,000	
3	D-50					N-162			8	127,000	
4	D-50		1.94			N-162		2.25	10	159,000	
5	D-50					N-162			8	149,000	
6	D-50		2.17			N-162		2.14	6	145,000	
7	D-50					N-162			10	156,000	
8	D-50					N-162			11	172,000	
9	D-50		2.18			N-162		2.37	9	146,000	
10	D-50					N-162			7	136,000	
11	D-50		2.21			N-162		2.30	9	145,000	
12	D-50					N-162			8	143,000	
13	D-50		2.11			N-162		2.29	10	144,000	
14	D-50					N-162			8	135,000	
15	D-50					N-162			5	162,000	
16	D-50		2.08			N-162		2.33	8	147,000	
17	D-50					N-162			8	128,000	
18	D-50		1.82			N-162		2.37	10	155,000	
19	D-50					N-162			8	147,000	
20	D-50		2.22			N-162		2.19	10	166,000	
21	D-50					N-162			10	145,000	
22	D-50					N-162			8	133,000	
23	D-50		2.31			N-162		2.27	9	133,000	
24	D-50					N-162			9	145,000	
25	D-50		2.11			N-162		2.34	10	141,000	
26	D-50					N-162			6	124,000	
27	D-50		2.21			N-162		2.15	8	134,000	
28	D-50					N-162			10	145,000	
29	D-50					N-162			10	142,000	
30	D-50		2.38			N-162		2.37	10	126,000	
31	D-50					N-162			8	147,000	
Totals			27.13					29.61	269	4,485,000	
Min			1.39					2.14	5	124,000	
Max			2.38					2.37	11	172,000	
Ave			2.09					2.28	9	144,677	

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VIRGINIA STATE DEPARTMENT
OF HEALTH
WATER CHLORINATION REPORT

No. of Connections: 206
No. of people served: 1625

Year 2019 Month December
County: Accomack
Supply: NASA Wallops Flight Facility
PWSID: 3001500 Mainbase

DATE	Residual Chlorine								Lbs. of solution injected	No. Gal. Water Treated	Comments
	North End Results			Entry Point		South End Results					
	Bldg.	Free	Total	Free	Total	Bldg.	Free	Total			
1	D-50	0.51		1.88		N-162	1.49		98	152,000	
2	D-50	0.66	0.68	1.90	2.00	N-162	1.62	1.77	68	156,000	
3	D-50	0.53		1.68		N-162	1.43		60	127,000	
4	D-50	0.37		1.35		N-162	1.49		68	159,000	
5	D-50	0.78		1.47		N-162	1.41		82	149,000	
6	D-50	0.66		1.45		N-162	1.38		50	145,000	
7	D-50	0.66		1.52		N-162	1.35		80	156,000	
8	D-50	0.54		1.44		N-162	1.28		90	172,000	
9	D-50	0.70	0.80	1.40	1.72	N-162	1.28	1.41	73	146,000	
10	D-50	0.65		1.35		N-162	1.24		62	136,000	
11	D-50	0.64		1.14		N-162	1.19		33	145,000	
12	D-50	0.67		1.21		N-162	1.20		91	143,000	
13	D-50	0.67		1.40		N-162	1.17		60	144,000	
14	D-50	0.71		1.60		N-162	1.19		70	135,000	
15	D-50	0.29		1.64		N-162	0.86		68	162,000	
16	D-50	0.54	0.60	1.53	1.68	N-162	0.81	0.92	70	147,000	
17	D-50	0.56		1.81		N-162	0.84		80	128,000	
18	D-50	0.46		1.74		N-162	0.79		82	155,000	
19	D-50	0.51		1.82		N-162	0.82		42	147,000	
20	D-50	0.49		2.11		N-162	1.44		106	166,000	
21	D-50	0.49		5.90		N-162	1.55		70	145,000	
22	D-50	0.52		>2.20		N-162	1.36		60	133,000	
23	D-50	0.61	0.71	2.13	>2.20	N-162	1.41	1.50	82	133,000	
24	D-50	0.55		2.06		N-162	1.90		51	145,000	
25	D-50	0.75		2.07		N-162	1.91		60	141,000	
26	D-50	0.83		1.93		N-162	1.75		78	124,000	
27	D-50	0.83		1.85		N-162	1.67		40	134,000	
28	D-50	0.90		1.77		N-162	1.60		70	145,000	
29	D-50	1.05		1.70		N-162	1.71		70	142,000	
30	D-50	0.99	1.06	1.63	1.90	N-162	1.59	1.78	72	126,000	
31	D-50	1.52		1.75		N-162			61	147000	
Totals		20.64	3.85	54.23	7.30		40.73	7.38	2,147	4,485,000	
Min		0.29	0.60	1.14	1.68		0.79	0.92	33	124,000	
Max		1.52	1.06	5.90	2.00		1.91	1.78	106	172,000	
Ave		0.67	0.77	1.81	1.83		1.36	1.48	69	144,677	

Signed: Robert Wilt
Printed Name: Robert Wilt

December 2019 Chincoteague Water Readings / from NASA grid		
Date	Current reading	gallons used
December 5th	87,265,000	660,000
December 12th	87,931,000	666,000
December 19th	88,586,000	655,000
December 26th	89,285,000	699,000
December total		2,680,000