National Aeronautics and Space Administration
Goddard Space Flight Center
Wallops Flight Facility
Wallops Island, VA 23337-5099

April 10, 2019

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

If you have any questions or comments concerning this report, please contact Mr. Jason Freischlag at (757) 824-2352.

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
WATER CHLORINATION REPORT

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

Year 2019 Month March
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	0.86		1.32		N-162	0.93		56	116,000	
2	D-50	1.03		1.18		N-162	0.95		50	131,000	
3	D-50	0.74		1.14		N-162	1.03		64	145,000	
4	D-50	0.56	0.58	1.20	1.52	N-162	0.97	1.01	52	115,000	
5	D-50	0.93		1.00		N-162	0.97		42	127,000	
6	D-50	0.86		1.09		N-162	0.98		50	129,000	
7	D-50	0.77		0.93		N-162	0.94		53	141,000	
8	D-50	0.86		0.97		N-162	0.92		53	107,000	
9	D-50	0.76		1.03		N-162	0.85		48	121,000	
10	D-50	0.40		1.25		N-162	0.76		58	160,000	
11	D-50	0.30	0.42	1.26	1.46	N-162	0.72	0.86	36	72,000	
12	D-50	0.23		1.25		N-162	0.88		52	128,000	
13	D-50	0.45	0.50	1.72	1.85	N-162	0.90	0.97	90	137,000	
14	D-50	0.41		2.20		N-162	0.84		104	142,000	
15	D-50	0.56		>2.20		N-162	0.91		90	101,000	
16	D-50	0.58		>2.20		N-162	1.02		78	122,000	
17	D-50	0.89		7.90		N-162	1.60		130	130,000	
18	D-50	0.30	0.42	>2.20	>2.20	N-162	>2.20	>2.20	108	121,000	
19	D-50	0.66		1.86		N-162	>2.20		4	126,000	
20	D-50	0.98		1.16		N-162	>2.20		62	148,000	
21	D-50	1.23		1.06		N-162	1.88		54	128,000	
22	D-50	1.05		0.94		N-162	1.27		42	128,000	
23	D-50	0.66		0.98		N-162	1.25		50	122,000	
24	D-50	0.64		1.02		N-162	0.78		60	153,000	
25	D-50	0.23		1.06	1.14	N-162	0.60		68	141,000	
26	D-50	0.53		1.03		N-162	0.72		50	118,000	
27	D-50	0.46	0.50	1.02	1.57	N-162	0.72	0.80	40	120,000	
28	D-50	0.61		1.13		N-162	0.76		50	143,000	
29	D-50	0.51		0.85		N-162	0.72		60	141,000	
30	D-50	0.62		1.23		N-162	0.73		48	135,000	
31	D-50	0.52		1.10		N-162	0.52		82	159,000	
Totals		20.19	2.42	39.88	7.54		26.12	3.64	1884	4007000	
Min		0.23	0.42	0.85	1.14		0.52	0.80	4	72000	
Max		1.23	0.58	7.90	1.85		1.88	1.01	130	160000	
Ave		0.65	0.48	1.42	1.51		0.93	0.91	61	129258	

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 March
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	0.86		1.13		Y 61	0.93		13	17,889	
2	W 71	0.93		1.02		Y 61	0.92		10	25,517	
3	W 71	0.90		0.76		Y 61	0.69		8	28,291	
4	W 71	0.91	0.97	1.20	1.27	Y 61	0.88	0.90	16	29,171	
5	W 71	0.93		1.09		Y 61	0.92		16	26,714	
6	W 71	0.69		1.04		Y 61	0.86		0	17,517	
7	W 71	0.73		1.12		Y 61	0.74		13	28,983	
8	W 71	0.64		1.07		Y 61	0.58		22	28,109	
9	W 71	0.78		1.12		Y 61	0.80		5	17,252	
10	W 71	0.71		0.86		Y 61	0.63		10	18,356	
11	W 71	0.82	0.93	1.05	1.11	Y 61	0.72	0.82	6	29,385	
12	W 71	0.85		1.12		Y 61	0.77		12	40,340	
13	W 71	0.80	0.89	1.18	1.38	Y 61	0.84	0.95	30	59,324	
14	W 71	0.72		1.11		Y 61	0.65		14	39,059	
15	W 71	0.75		0.93		Y 61	0.71		0	8,791	
16	W 71	0.77		1.20		Y 61	0.78		20	28,677	
17	W 71	0.60		1.09		Y 61	0.59		14	19,066	
18	W 71	0.71	0.75	1.33	1.45	Y 61	0.65	0.79	10	37,987	
19	W 71	0.76		1.55		Y 61	0.69		8	17,510	
20	W 71	0.73		1.44		Y 61	1.05		4	18,957	
21	W 71			1.62		Y 61			12	57,282	weather
22	W 71	0.80		1.31		Y 61	1.11		6	19,226	
23	W 71	0.74		1.36		Y 61	1.13		8	17,618	
24	W 71	0.72		1.14		Y 61	0.81		10	18,263	
25	W 71	0.73	0.79	1.39	1.58	Y 61	0.93	1.06	10	33,234	
26	W 71	0.79		1.37		Y 61	0.90		22	37,271	
27	W 71	0.87	0.88	1.54	1.87	Y 61	0.98	1.06	12	29,335	
28	W 71	0.92		1.32		Y 61	0.94		12	36,052	
29	W 71	0.77		1.36		Y 61	0.91		14	19,400	
30	W 71	0.93		1.35		Y 61	0.97		16	28,424	
31	W 71	0.88		1.53		Y 61	0.92		10	28,766	
Totals		23.74	5.21	37.70	8.66		25.00	5.58	363	861766	
Min		0.60	0.75	0.76	1.11		0.58	0.79	0	8791	
Max		0.93	0.97	1.62	1.87		1.13	1.06	30	59324	
Ave		0.79	0.87	1.22	1.44		0.83	0.93	12	27799	

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 March
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		3.24			N-162		>5.0	0	116,000	
2	D-50					N-162			0	131,000	
3	D-50					N-162			0	145,000	
4	D-50		3.78			N-162		0.62	0	115,000	
5	D-50					N-162			6	127,000	
6	D-50		>5.0			N-162		4.36	8	129,000	
7	D-50					N-162			8	141,000	
8	D-50		2.14			N-162		4.33	6	107,000	
9	D-50					N-162			6	121,000	
10	D-50					N-162			8	160,000	
11	D-50		2.23			N-162		2.07	6	72,000	
12	D-50					N-162			6	128,000	
13	D-50		2.08			N-162		1.80	8	137,000	
14	D-50					N-162			6	142,000	
15	D-50		1.86			N-162		1.88	8	101,000	
16	D-50					N-162			6	122,000	
17	D-50					N-162			12	130,000	
18	D-50		1.81			N-162			10	121,000	
19	D-50					N-162			12	126,000	
20	D-50		2.13			N-162		3.36	12	148,000	
21	D-50		2.50			N-162		3.01	12	128,000	
22	D-50					N-162			12	128,000	
23	D-50					N-162			8	122,000	
24	D-50					N-162			12	153,000	
25	D-50		2.30			N-162		3.01	12	141,000	
26	D-50					N-162			10	118,000	
27	D-50		2.54			N-162		2.92	8	120,000	
28	D-50					N-162			11	143,000	
29	D-50		3.33			N-162		3.07	11	141,000	
30	D-50					N-162			12	135,000	
31	D-50					N-162			13	159,000	
Totals		0.00	29.94				0.00	30.43	249.00	4007000	
Min		0.00	1.81				0.00	0.62	0.00	72000	
Max		0.00	3.78				0.00	4.36	13.00	160000	
Ave		#DIV/0!	2.50				#DIV/0!	2.77	8.03	129258	

Signed: Robert Wilt
Printed Name: Robert Wilt

VIRGINIA STATE DEPARTMENT
OF HEALTH
ORTHOPHOSPHATE REPORT

No. of Connections: 38
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Year 2019 Month March
County: Accomack
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	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		2.99			Y-61		3.21	3	17,889	
2	W-71					Y-61			2	25,517	
3	W-71					Y-61			2	28,291	
4	W-71		0.64			Y-61		3.20	4	29,171	
5	W-71					Y-61			2	26,714	
6	W-71		>5.0			Y-61		>5.0	2	17,517	
7	W-71					Y-61			3	28,983	
8	W-71		2.17			Y-61		3.45	3	28,109	
9	W-71					Y-61			2	17,252	
10	W-71					Y-61			2	18,356	
11	W-71		3.24			Y-61		3.14	2	29,385	
12	W-71					Y-61			4	40,340	
13	W-71		4.84			Y-61		5.22	6	59,324	
14	W-71					Y-61			4	39,059	
15	W-71		4.12			Y-61		3.77	2	8,791	
16	W-71					Y-61			1	28,677	
17	W-71					Y-61			3	19,066	
18	W-71		3.20			Y-61		3.10	4	37,987	
19	W-71					Y-61			1	17,510	
20	W-71		3.63			Y-61		3.13	1	18,957	
21	W-71					Y-61			3	57,282	weather
22	W-71		0.79			Y-61		2.82	1	19,226	
23	W-71					Y-61			2	17,618	
24	W-71					Y-61			3	18,263	
25	W-71		2.91			Y-61		2.79	3	33,234	
26	W-71					Y-61			3	37,271	
27	W-71		2.91			Y-61		2.82	4	29,335	
28	W-71					Y-61			2	36,052	
29	W-71		2.80			Y-61		2.85	2	19,400	
30	W-71					Y-61			2	28,424	
31	W-71					Y-61			4	28,766	
Totals		0.00	34.24				0.00	39.50	82.00	861766	
Min		0.00	0.64				0.00	2.79	1.00	8791	
Max		0.00	4.84				0.00	5.22	6.00	59324	
Ave		#DIV/0!	2.85				#DIV/0!		2.65	27799	

Signed: Robert Witt
Printed Name: Robert Witt

March 2019 Chincoteague Water Readings / from NASA grid		
Date	Current reading	gallons used
March 7th	61,201,000	509,000
March 14th	61,659,000	458,000
March 21st	62,162,000	503,000
March 28th	62,619,000	457,000
March total		1,927,000