

SANFORD LAW OFFICE, PLLC

Jo Anne Sanford, Attorney at Law

October 11, 2022

Via Electronic Filing

Ms. A. Shonta Dunston, Chief Clerk
North Carolina Utilities Commission
4325 Mail Service Center
Raleigh, North Carolina 27699-4325

Re: Docket No. W-218, Sub 526A
REPORTING REQUIREMENT DOCKET
Third Quarter 2022 Notice of Deficiency Reports Provided to the
North Carolina Department of Environmental Quality

Dear Ms. Dunston:

Attached for filing please find Aqua North Carolina, Inc.'s Third Quarter 2022 Notice of Deficiency Reports; these were provided to the North Carolina Department of Environmental Quality and the Public Staff on October 6, 2022.

I hereby certify that I have served a copy of this filing on all parties of record in the docket.

As always, thank you and your staff for your assistance and please feel free to contact me if there are any questions.

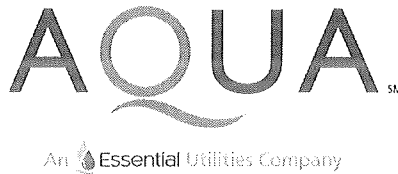
Sincerely,

Electronically Submitted

/s/ Jo Anne Sanford
Sanford Law Office, PLLC
State Bar No. 6831

Attorney for Aqua North Carolina, Inc.

c: Parties of Record



October 5, 2022

Mr. Shawn F. Guyer, P.E.
Engineering Supervisor
Public Water Supply Section
Raleigh Regional Office, NCDEQ
1628 Mail Service Center
Raleigh, NC 27699-1628

Re Notice of Deficiency – Quarterly Update
Iron and Manganese Concentration

Dear Mr. Guyer:

Attached you will find Aqua's Q-3 2022 responses and updates for the current notice of deficiency water systems. We have developed this cover letter to supply you with a summary of our current and ongoing efforts.

There is one well that has Public Staff and North Carolina Utilities Commission approval for manganese dioxide filtration which is currently in the engineering/installation/startup phase of the project and planned to be operational in Q-4 2022.

- High Grove well #1 (P01)

There are three wells that Aqua respectfully requests to be removed from quarterly NOD reporting.

- Foxboro Well #3 (P03) – New Filter Installed
- Hawthorne well #1 and #2 (P76) – Offline
- Barton Creek Bluffs well #10 (P67) - Zero Customer Complaints

If you have any questions, please feel free to contact me at 1-919-653-6982.

Sincerely,

A handwritten signature in black ink, appearing to read "R. Krueger".

Robert Krueger
Area Manager
Aqua North Carolina, Inc.

cc: Joseph Pearce
Amanda Berger
Shannon Becker
State of North Carolina
Utilities-Public Staff



October 5, 2022

Mr. Shawn F. Guyer, P.E.
Engineering Supervisor
Public Water Supply Section
Raleigh Regional Office
NCDEQ
1628 Mail Service Center
Raleigh, NC 27699-1628

Re: Notice of Deficiency
Iron and Manganese Concentration
Bayleaf Master System
Wake County
WSF ID Nos: P67, P76
Water System No: NC039373

Dear Mr. Guyer:

Aqua North Carolina, Inc. (Aqua) received the above-referenced letter dated July 12, 2016, regarding elevated concentrations of Iron (Fe) and Manganese (Mn) at Bayleaf Master System, P67, P76. The Bayleaf Master water system is comprised of 122 active wells and 117 points of entry (POE). The current number of connections served is 6,112 and the system is approved to serve 6,356 connections.

Due to the number of wells associated with our Bayleaf Master System Notice of Deficiencies, Aqua has compiled the requested information in a table format as follows:

- Table 1 provides a summary of well information, completed activities and planned activities.
- Table 2 (Attachment 2) provides a summary of raw, POE and distribution iron and manganese samples collected at WSF ID Nos. P67, P76 as part of the ongoing Inorganic Chemical Analyses (IOC).
- Table 3 (Attachment 3) provides a summary of customer complaint information.

UPDATED QUARTERLY STATUS REPORT

<u>Table 1 – Well Information, Completed Activities and Planned Activities</u>		
<u>Well Name and No.</u>	<u>Completed Activities</u>	<u>Planned Activities</u>
Hawthorne Well #1 & #2 (P76)	<ul style="list-style-type: none"> • February 2016 -Started Using SeaQuest • Jan - Apr 2016 - Flushed system • February 2017 - Flushed system • June 2017 - Installed cartridge filter • September 2017 – Started Distribution and POE total and soluble sampling • December 2017 - Added raw sample data • March 2018 - Storage tank was cleaned • Q2-2018 system flushed • July 2018 - Adjusted Seaquest feed rate • Q4- 2018 performed jar testing at well #1 and adjusted sequestration feeds 	<ul style="list-style-type: none"> • Continued investigation of well #1 and #2 production and water quality • Well 1 will be placed offline (not actively feeding distribution) by May 1, 2022 • Evaluate alternative options (drilling new well, cleaning, etc.) to remediate the supply loss
Approved GPM (73)		
Avg. Quarterly Runtime (0)		
<p><u>Comments:</u> Aqua keeps these wells offline as much as possible. When peak demands exceed 14 hours, well #1 is utilized as it is the only source on a 5,000-gallon ground storage tank. Aqua is currently investigating multiple options to address the source water quality issues. Well #1 is currently only producing an average of 7 gpm which does not warrant filter installation. Aqua is evaluating well #2 water quality and the possibility of putting it back in-service. Well 1 will be placed offline (not actively feeding distribution) by May 1, 2022. Aqua will evaluate alternative options (drilling new well, cleaning, etc.) to remediate the supply loss to the Bayleaf master system. Aqua respectfully asks for this well be removed from quarterly reporting with the understanding that any use of this well will require the quarterly reporting to continue.</p>		

UPDATED QUARTERLY STATUS REPORT

<u>Table 1 – Well Information, Completed Activities and Planned Activities</u>		
<u>Well Name and No.</u>	<u>Completed Activities</u>	<u>Planned Activities</u>
Barton Creek Bluffs Well #10 (P67)	<ul style="list-style-type: none"> • March 2016 – Started using SeaQuest • February 2017 – Flushed system • September 2017 – Took soluble and insoluble well head and distribution samples • December 2017 – Added raw sample data distribution soluble and insoluble iron • Q2 – 2018 Flushed system • Q4- 2018 performed jar testing at this well and adjusted sequestration feeds. 	<ul style="list-style-type: none"> • Continue to monitor the effectiveness of sequestration
Approved GPM (15)		
Avg. Quarterly Runtime (13)		
<p><u>Comments:</u></p> <p>Aqua has received zero customer complaints in the last year of quarterly reporting for this well and respectfully requests that this system be removed from quarterly reporting.</p>		

Aqua is committed to providing water to its customers that meets their expectations at a reasonable cost. If you have any questions or comments, please contact me at (919) 653-6982.

Sincerely,



Robert Krueger
 Area Manager
 Aqua North Carolina, Inc.

Cc: Joseph Pearce
 Amanda Berger
 Shannon Becker
 State of North Carolina
 Utilities-Public Staff

W-218 Sub 526A

Well Name	Date	Avg. Sample Week Run Time	Raw-Fe Lab	Raw-Fe-Diss	Fe Lab	Fe-Diss	Distribution System-Fe Lab	Distribution System-Fe-Diss	Raw-Mn Lab	Raw-Mn Diss	Mn Lab	Mn-Diss	Distribution System-Mn Lab	Distribution System-Mn-Diss
Bayleaf # 1 & 2	5/19/2016	10.7			1.01						0.53			
P76	9/20/2016	14.2												
	3/23/2017	10.3												
	6/8/2017	15.51												
	9/15/2017	16.9												
	9/28/2017	21.72			0.833	0.164	0.0585	<0.0220			0.531	0.184	0.0108	0.00122
	10/6/2017	23.6			0.882	0.309	<0.0220	<0.0220			0.417	0.343	0.00236	0.00161
	10/23/2017	18.38			0.892	0.0559	0.139	<0.0220			0.32	0.225	0.0308	0.00597
	11/7/2017	11.86			0.634	0.0331	0.0234	<0.0220			0.202	0.134	0.0029	0.00128
	11/16/2017	8.38			0.814	<0.0220	0.736	<0.0220			0.233	0.104	0.269	0.141
	12/14/2018	9.8			13.9	0.171	<0.0220	<0.0220	0.391	0.362	0.423	0.181	0.00136	0.0011
	1/22/2018	10.1			6.96	0.102	0.116	0.0572	0.54	0.5	0.478	0.102	0.0196	0.00319
	2/26/2018	12.2			1.24	0.0817	0.0482	<0.0220	0.693	0.489	0.693	0.276	0.144	0.304
	3/28/2018	6.7			1.08	<0.0220	0.87	0.217	0.582	0.614	0.586	0.547	0.402	0.287
	4/5/2018	8.19			0.941	0.0407	<0.0220	<0.0220	0.847	0.578	0.457	0.547	0.402	0.287
	5/2/2018	7.56			0.828	0.0163	0.206	<0.0600	0.531	0.518	0.526	0.486	0.531	0.518
	6/21/2018	12.67			0.793	<0.0220	0.354	<0.0220	0.504	0.492	0.266	0.184	0.00875	<0.0015
	7/12/2018	12.94			0.786	0.433	0.0445	<0.0220	0.476	0.48	0.445	0.433	0.00616	0.00237
	8/9/2018	5.21			0.707	0.271	0.21	0.0286	0.234	0.312	0.239	0.162	0.0289	0.00614
	9/8/2018	8.97			1.53	0.0246	0.0462	<0.0220	0.372	0.343	0.0205	0.00665	0.0151	0.00675
	10/19/2018	8.92			1.10	<0.0220	0.0641	<0.0220	0.425	0.326	0.425	0.326	0.175	0.00599
	11/16/2018	10.33			6.73	<0.0220	0.0905	<0.0220	0.351	0.297	0.184	<0.00150	0.0121	<0.00150
	12/5/2018	7.18			1.27	0.0248	0.0477	<0.0220	0.485	0.496	0.294	0.206	0.00557	<0.00150
	1/24/2019	5.04			0.901	<0.0220	0.104	<0.0220	0.501	0.501	0.315	0.188	0.0730	0.00325
	2/7/2019	3.21			0.915	<0.0220	0.272	0.102	0.494	0.499	0.238	0.108	0.0677	0.0549
	5/10/2019	6.47			0.584	<0.0454					0.296	0.229		
	9/19/2019	9.46				<0.0220					0.635	0.616		
	1/31/2020	16.3				<0.0220					0.483	0.487		
	2/27/2020	0			1.38	0.25			0.485	0.486	0.613	0.479		
	4/20/2020	0				<0.0220			2.07	0.799	0.500	0.483		
	10/29/2020	23.67			0.884	<0.0220			0.524	0.525	0.503	0.420		
	2/22/2022	0			1.89	0.0606			0.458	0.46				

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Well Name	Date	Avg. Sample Week Run Time	Raw-Fe Lab	Raw-Fe Diss	Fe Lab	Fe-Diss	Distribution System-Fe Lab	Distribution System-Fe-Diss	Raw-Mn Lab	Raw-Mn Diss	Mn Lab	Mn-Diss	Distribution System-Mn Lab	Distribution System-Mn-Diss
Barton Creek Bluffs #10	6/1/2013	9.4												
P67	5/31/2016	9.8									0.2			
	5/9/2018	9.57	0.409	<0.0220	0.784	<0.0220	0.0505	<0.0220	0.232	0.221	0.241	0.178	0.203	0.0934
	6/21/2018	13.39	0.0373	<0.0220	0.0354	0.0335	0.0516	<0.0220	0.223	0.218	0.221	0.218	0.0142	0.00973
	7/12/2018	13.01	0.0353	<0.0220	0.0428	0.0368	0.501	<0.0220	0.208	0.207	0.207	0.205	0.0595	0.00983
	9/8/2018	10.98	<0.0220	<0.0220	<0.0220	<0.0220	0.253	0.0681	0.148	0.153	0.151	0.079	0.0546	0.0352
	10/19/2018	20.74	<0.0220	0.0388	0.0227	<0.0220	0.287	<0.0220	0.14	0.00318	0.141	0.00316	0.0771	0.00245
	11/16/2018	11.48	0.0580	<0.0220	0.213	<0.0220	0.0452	<0.0220	0.138	0.142	0.760	0.626	0.0124	0.0112
	12/5/2018	9.29	0.311	<0.0220	0.125	<0.0220	0.0829	<0.0220	0.145	0.0151	0.106	0.0759	0.0134	0.00617
	1/24/2019	8.82	0.336	<0.0220	0.414	<0.0220	0.0904	<0.0220	0.213	0.112	0.303	0.120	0.0423	0.0357
	2/7/2019	6.8	0.668	<0.0220	0.338	<0.0220	<0.0220	<0.0220	0.489	0.0170	0.151	0.0368	0.0712	0.0513
	3/15/2019	7.97	0.605	<0.0220	0.262	<0.0220	0.271	<0.0220	0.160	0.0505	0.150	0.115	0.0187	0.0176
	4/25/2019	10.67	0.0360	<0.0220	0.0300	0.0220	0.0615	<0.0220	0.149	0.0145	0.141	0.138	0.0304	0.0157
	5/10/2019	10.06	0.248	<0.0220	0.329	0.0234	0.0455	<0.0220	0.127	0.0847	0.122	0.110		
	6/14/2019	15.17	0.161	<0.0220	0.185	<0.0220			0.162	0.125	0.140	0.121		
	7/12/2019	14.26	0.0405		0.0351				0.139		0.138	0.126		
	8/15/2019	12.8	0.0303	<0.0220	0.0316	<0.0220			0.128	0.124	0.131	0.128		
	12/31/2019	8.86	0.0582	<0.0220	0.0709	<0.0220			0.118	0.112	0.109	0.107		
	2/14/2020	7.02	0.0408	<0.0220	0.0375	<0.0220			0.0589	0.059	0.0651	0.054		
	4/22/2020	8.53	0.0521	<0.0220	0.0484	<0.0220			0.096	0.090	0.0974	0.106		
	5/28/2020	8.56	0.0308	<0.0220	0.0327	<0.0220			0.185	0.151	0.1530	0.124		
	6/9/2020	8.53	0.0657	<0.0220	0.201	<0.0220			0.0162	0.012	0.0384	0.004		
	8/31/2020	10.5	0.0252	<0.0220	0.0475	<0.0220			0.0251	0.022	0.0262	0.026		
	10/22/2020	9.6	0.0283	<0.0220	0.0323	<0.0220			0.0765	0.070	0.0767	0.075		
	11/19/2020	7.5	0.0292	<0.0220	0.0247	<0.0220			0.141	0.144	0.1410	0.135		

Table 3 - Bayleaf Customer Complaints

SO	SO Type	CSR Notes	Date of SO	Completion Date	Premise Address	City State zip	Subdivision	Capture	FSR Notes
4182271	LABD-S	PER ANN HER WATER IS FILLED WITH MINERALS AND CAUSING FILTER TO TURN BLACK	9/27/2022	10/3/2022	565736 2904 SUNNYSTONE WAY	RALEIGH, NC 27613-6192	BARTON CREEK BLUFFS	N	10/3 LEFT VM FOR CSTM. CHECKED ON HER OTHER ORDER FOR SERVICE LEAK. IT APPEARS THERE MAY HAVE BEEN A SERVICE LEAK THAT HAS BEEN ADDRESS AND MAY HAVE BEEN CAUSE. NO RESPONSE TO MY CALL TSS
14156341	LABI-S	MRS. ABEBI IS REQUESTING THE HARDNESS OF THE WATER CONTACT 919-578-5021.CUST NEEDS TO KNOW IF AQUA HAS SOFTENING PROCESSES SHE HASALSO INSTALLED DEVICES TO SOFTEN WATER AND SHE WANTS TO CHANGE THE DEVICE	9/12/2022	9/12/2022	562946 2601 SUNNYSTONE WAY	RALEIGH, NC 27613-6098	BARTON CREEK BLUFFS	N	CLSD ORDER customer just wanted hardness tested FSR:stevenco, EVT:lab
14096347	LABD-S	XIAOBJIAO / WATER IS BLACK / PLEASE CALL 919-389-2022	8/4/2022	8/5/2022	583767 5011 MARTIN FARM RD	RALEIGH, NC 27613-8574	BARTON CREEK BLUFFS	N	8/5 SPR TO CSMTR WATER WAS CLEAR. KEPT IN SUSP FOR 24 HRS. CSTM WAS TOCALL BACK IF ISSUE REQUIRED. NO FURTHER CONTACT FROM CSTM TSS CLSD ORDERFSR:markard, EVT:lab

W-218 Sub 526A



October 5, 2022

Mr. Shawn F. Guyer, P.E.
Engineering Supervisor
Public Water Supply Section
Raleigh Regional Office, NCDEQ
1628 Mail Service Center
Raleigh, NC 27699-1628

Re: Notice of Deficiency – Quarterly Update
Manganese Concentration
Foxboro Estates, Orange County
WSF ID No. P03 Well #3
Water System No: NC368144

Dear Mr. Guyer:

Aqua North Carolina, Inc. (Aqua) received the above-referenced letter dated July 12, 2016, regarding elevated concentrations of Iron (Fe) and Manganese (Mn) at Branston Well #2, TP1. The Branston water system is comprised of one active well and one point of entry (POE). The current number of customers served is 44 and the system is approved to serve 44 connections.

Aqua has compiled the requested information in a table format as follows:

- Table 1 provides a summary of well information, completed activities and planned activities.
- Table 2 (Attachment 2) provides a summary of raw, POE and distribution iron and manganese samples collected as part of the ongoing Inorganic Chemical Analyses (IOC).
- Table 3 (Attachment 3) provides a summary of customer complaint information.

UPDATED QUARTERLY STATUS REPORT

Table 1 – Well Information, Completed Activities and Planned Activities

<u>Well Name and No.</u>	<u>Completed Activities</u>	<u>Planned Activities</u>
Foxboro Estates Well #3 (P03)	<ul style="list-style-type: none"> April 19, 2022 -Obtained approval from the Utilities Commission for the installation of an iron and manganese filtration system. 	<ul style="list-style-type: none"> Filter installation and filter start-up completed in Q3-2022
Approved GPM (23)		
Avg. Quarterly Runtime (1.75) hours per day)		
<p><u>Comments:</u></p> <p>Based on the installation of the manganese dioxide filtration, Aqua respectfully requests this well be removed from the NOD quarterly reporting.</p>		

Aqua is committed to providing water to its customers that meets their expectations at a reasonable cost. If you have any questions or comments, please contact me at (919) 653-6982.

Sincerely,



Robert Krueger
 Area Manager
 Aqua North Carolina, Inc.

Cc: Joseph Pearce
 Amanda Berger
 Shannon Becker
 State of North Carolina
 Utilities-Public Staff

W-218 Sub 526A

FOXBORO - NC0368144 - Well #3

Date	Avg. Sample Week Run Time	Raw-Fe Lab	Raw-Fe-Diss	Fe Lab	Fe-Diss	Distribution System-Fe Lab	Distribution System-Fe-Diss	Raw-Mn Lab	Raw-Mn-Diss	Mn Lab	Mn-Diss
6/21/2022	1.67	10.4	<0.0220	4.82	<0.0220			0.458	0.403	0.409	0.357
8/31/2022	3	3.85	0.0436	3.38	0.0439			0.398	0.386	0.443	0.401

Sample data will continue after filter installation to verify filter performance.

* All units are in mg/L

* Lab is Total Metals

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Table 3 - Foxboro Well #2 Customer Complaints										
SO	SO Type	CSR Notes	Date of SO	Completion Date	Premise	Address	City State Zip	Subdivision	FSR Notes	
Q-3 2022 Zero Customer Complaints										

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October 5, 2022

Mr. Shawn F. Guyer, P.E.
Engineering Supervisor
Public Water Supply Section
Raleigh Regional Office, NCDEQ
1628 Mail Service Center
Raleigh, NC 27699-1628

Re: Notice of Deficiency – Quarterly Update
Iron and Manganese Concentration
High Grove Subdivision, Wake County
WSF ID No.: Well #1, P01
Water System No: NC4092096

Dear Mr. Guyer:

Aqua North Carolina, Inc. (Aqua) received the above-referenced letter dated July 12, 2016, regarding elevated concentrations of Iron (Fe) and Manganese (Mn) at High Grove Well #1, P01. The High Grove water system is comprised of three active wells and three points of entry (POE). The current number of customers served is 150 and the system is approved to serve 155 connections.

Aqua has compiled the requested information in a table format as follows:

- Table 1 provides a summary of well information, completed activities and planned activities.
- Table 2 (Attachment 2) provides a summary of raw, POE and distribution iron and manganese samples collected as part of the ongoing Inorganic Chemical Analyses (IOC).
- Table 3 (Attachment 3) provides a summary of customer complaint information.

UPDATED QUARTERLY STATUS REPORT

Table 1 – Well Information, Completed Activities and Planned Activities

<u>Well Name and No.</u>	<u>Completed Activities</u>	<u>Planned Activities</u>
High Grove, Well #1 (P01)	<ul style="list-style-type: none"> • September 2015 – Started using SeaQuest • May 2017 – Flushed system • September 2017 – Started distribution and POE total and soluble sampling • November 2017 – Hydropneumatic tank cleaned • December 2017 – added raw sample data • August 2018 - Installed cartridge filter • January 2019 – Instituted jar testing on the • Q4 2019 – Flushed System • Q1-2020 - Installed an auto blow off on the cartridge filter. • Q1-2020 Flushed system • Q1-2021 Flushed system • Q1-2022 Flushed system • Q3-2022 Flushed system 	<ul style="list-style-type: none"> • Manganese dioxide filtration has been designed and is under construction. Planned to be online by Q4-2022. • Continue to monitor sequestration and cartridge filter operation. • Annual flushing of the distribution system.
Approved GPM (48)		
Avg. Quarterly Runtime (8.5 hours per day)		
Comments:		
Manganese dioxide filtration is currently in the construction phase. Aqua will continue to monitor sequestration and cartridge filter operations. The new filter is scheduled to be online by Q4-2022.		

Mr. Shawn F. Guyer, P.E.
October 5, 2022
High Grove Subdivision Quarterly Update

W-218 Sub 526A

Aqua is committed to providing water to its customers that meets their expectations at a reasonable cost. If you have any questions or comments, please contact me at (919) 653-6982.

Sincerely,



Robert Krueger
Area Manager
Aqua North Carolina, Inc.

Cc: Joseph Pearce
Amanda Berger
Shannon Becker
State of North Carolina
Utilities-Public Staff

OFFICIAL COPY

Oct 11 2022

HIGH GROVE-NC4092096 - Well #1													
Date	Avg. Sample Week Run Time	Raw-Fe		Distribution System-Fe		Raw-Mn		Distribution System-Mn		Raw-Diss		Distribution System-Mn-Diss	
		Lab	Diss	Lab	Diss	Lab	Diss	Lab	Diss	Lab	Diss	Lab	Diss
10/2/2017													
10/19/2017	0.267			0.168	0.0758	0.266	0.123			0.106	0.0931	0.127	0.0425
11/9/2017	0.54			0.131	0.0378	1.73	0.0357			0.0515	0.0357	0.326	0.0352
11/17/2017	0.45			0.138	0.0418	0.132	0.0973			0.0376	0.018	0.0383	0.0324
12/12/2017	0.5			0.18	0.0892	0.179	0.0916			0.0261	0.0192	0.0259	0.0196
1/8/2018	0.035	0.168	0.135	0.183	0.173	0.18	0.172	0.128	0.136	0.144	0.144	0.138	0.134
3/5/2018	0.512	0.264	0.225	0.171	0.157	0.176	0.168	0.166	0.168	0.126	0.123	0.131	0.131
4/2/2018	3.5	0.305	0.167	1.22	0.137	0.182	0.162	0.117	0.123	0.22	0.126	0.141	0.137
5/10/2018	5.27	0.403	0.0843	0.266	<0.0220	1.28	<0.0220	0.108	0.0843	0.12	0.108	0.165	0.035
6/11/2018	4.35	0.248	0.169	0.27	0.221	2.1	<0.0220	0.104	0.105	0.119	0.112	0.0933	0.0802
7/30/2018	3.97	2.82	0.0431	1.4	<0.0220	0.304	0.0565	0.207	0.195	0.198	0.195	0.198	0.171
8/7/2018	8.8	1.01	0.0373	0.434	0.103	0.265	<0.0220	0.206	0.198	0.2	0.197	0.172	0.142
10/3/2018	12.1	0.577	0.124	0.0959	0.0324	0.127	0.0446	0.0775	0.0661	0.0752	0.0715	0.0726	0.0691
11/1/2018	8	2.33	0.183	0.0798	0.0235	0.202	<0.0220	0.266	0.0804	0.122	0.118	0.0988	0.0788
12/6/2018	7.43	3.70	0.284	1.08	0.130	0.0687	0.0328	0.116	0.0843	0.110	0.102	0.110	0.106
1/14/2019	5.23	0.471	0.0780	<0.0220	<0.0220	0.0529	0.0334	0.130	0.108	0.0816	0.0838	0.0796	0.0755
2/11/2019	7.53	0.518	0.191	0.242	0.0982	0.282	0.113	0.119	0.106	0.133	0.133	0.116	0.111
4/8/2019	1.5	0.438	0.346	0.287	0.0484	0.262	<0.0220	0.188	0.192	0.174	0.137	0.159	0.115
5/16/2019	4	0.640	0.109	0.712	0.358			0.136	0.132	0.0979	0.0902		
6/4/2019	8	0.628	0.0650	0.470	0.201			0.137	0.128	0.0931	0.0873		
7/16/2019	6	9.73	0.1370	1.040	0.0585			0.472	0.0592	0.115	0.0893		
8/12/2019	8	12.4	0.355	0.27	0.199			0.339	0.0934	0.0874	0.0802		
9/19/2019	9	0.202	0.1000	0.095	0.0615			0.115	0.135	0.103	0.0986		
10/21/2019	8.5	0.791	0.1060	0.610	0.0854			0.107	0.0922	0.0784	0.0613		
12/9/2019	0.5	0.21	0.1290	0.077	0.0411			0.133	0.134	0.0659	0.0437		
1/13/2020	0.67	0.414	0.2460	0.303	0.239			0.159	0.16	0.123	0.123		
2/26/2020	2.25	0.394	0.1970	0.319	0.0485			0.168	0.175	0.141	0.0897		
3/3/2020	11.5	0.23	0.1950	0.146	0.118			0.134	0.136	0.104	0.0975		
5/13/2020	2	0.146	0.0353	0.170	<0.0220			0.102	0.0932	0.109	0.0765		
8/10/2020	2.5	1.22	0.0814	0.395	0.0496			0.139	0.132	0.118	0.106		
10/12/2020	3.25	0.282	0.1420	0.131	0.0872			0.169	0.164	0.133	0.126		
1/29/2021	5.33			0.444	0.0245					0.157	0.149		
3/4/2021	1.0	0.452	0.0592	0.476	0.0277	0.334	0.0248	0.129	0.131	0.131	0.102	0.0473	0.022
4/26/2021	4.25			1.100	0.0242					0.172	0.116		
8/16/2021	11.8			0.559	<0.0220					0.133	0.0908		
11/8/2021	3.0	0.661	0.1350	0.239		1.57		0.182	0.303	0.155	0.127	0.263	0.0925
2/28/2022	14.0	0.621	0.0924	0.408	0.236			0.21	0.214	0.215	0.21		
5/9/2022	0			1.340						0.147			
5/9/2022	0	0.676	<0.0220	0.927	0.0268			0.206	<0.00150	0.158	0.0857		
8/25/2022	10.33	0.388	<0.0220	0.244	0.0365			0.123	0.0118	0.12	0.101		

* All units are in mg/L * Lab is Total Metals

Table 3 - High Grove Well #1 Customer Complaints
Water_Quality_Complaints From 7/1/2022 - 9/30/2022

SO	SO Type	CSR Notes	Date of SO	Completion Date	Premise Address	City State Zip	Subdivision	FSR Notes
14175096	LABD-S	9/22/22 6:28AM BROWN WATER	9/22/2022	9/22/2022	1362547 3100 LEBRUN PATH	FUQUAY VARINA, NC 27526-7684	High Grove	water cleared after flushing FSR:taberj, EVT:Lab
14453488	LABD-S	9/9/22 7:39AM WATER IS DARK BROWN AND DIRTY	9/9/2022	9/9/2022	1362547 3100 LEBRUN PATH	FUQUAY VARINA, NC 27526-7684	High Grove	flushed cust house . recommendation cust. continue yo flush/flush at blow off . blow off buried in neighbors sod, dug up FSR:taberj, EVT:Lab
14111868	LABD-S	8/15/22 7:30AM BROWN WATER- WILL BE CALLING A LAWYER	8/15/2022	8/15/2022	1362547 3100 LEBRUN PATH	FUQUAY VARINA, NC 27526-7684	High Grove	H.G. 3 needs a real fe min filter raw fe 0.50 to 1.2 mn 0.180 to 200flushed snd flushed jumper inFSR:taberj, EVT:Lab
14101091	LABD-S	CUSTOMER HAS ORANGE COLOR WATER/ DARK COLOR/ NO OFF SMELL	8/8/2022	8/8/2022	1328960 5033 DARCY WOODS LN	FUQUAY VARINA, NC 27526-7695	High Grove	Fiber boring in the area. Opened blowoff overnight. FSR:rhinerb, EVT:Lab
14094403	LABD-S	PER SUSAN WATER IS RED PLEASE SERVICE / WILL LEAVE A SAMPLE ATFRONT DOOR	8/3/2022	8/3/2022	1362547 3100 LEBRUN PATH	FUQUAY VARINA, NC 27526-7684	High Grove	Cust. at far end of sub. end cul de sac. H.G. #3. raw Fe0.70 Mn0.187flushed with L jumper. .left in strait jumper for cost. to flushput a REAL filter in. harrisco dose nothing
14092846	LABT-S	8-2-22 LISA IS STATING HER WATER HAS SMELLED LIKE VINEGAR OR "SWEATY ARMPIT" FOR ABOUT 3 DAYS.	8/2/2022	8/5/2022	1060944 3417 PETTICOAT LN	FUQUAY VARINA, NC 27526-3403	High Grove	8/5 SPK TO CSTMR SEEMED LOCALIZED TO SHOWER. HAS BEEN 3 DAYS WITH NO ODORTSS CLSD ORDERFSR:markard, EVT:Lab
14085293	LABD-S	BEN REPORTS THAT HE HAS BROWN WATER - NOTHING ON THE MAP	7/28/2022	7/29/2022	1374924 3108 LEBRUN PATH	FUQUAY VARINA, NC 27526-7684	High Grove	clear on arrival FSR:taberj, EVT:Lab
14078180	LABD-S	BROWN WATER W/ SEDIMENT	7/23/2022	7/24/2022	1421412 5021 DARCY WOODS LN	FUQUAY VARINA, NC 27526-7695	High Grove	Homeowner flushed lines, water cleared up FSR:kingcj, EVT:Lab
14057576	LABD-S	CUSTOMER REPORTING ORANGE DISCOLORATION TO WATER SUPPLY	7/11/2022	7/13/2022	1328960 5033 DARCY WOODS LN	FUQUAY VARINA, NC 27526-7695	High Grove	clear ON ARRIVAL FSR:taberj, EVT:Lab
14055407	LABD-S	CUSTOMER REPORTING DARK ORANGE DISCOLORATION	7/10/2022	7/11/2022	1349684 3117 LEBRUN PATH	FUQUAY VARINA, NC 27526-7683	High Grove	Jumper installed to clear FSR:rhinerb, EVT:Lab
14055371	LABD-S	BROWN WATER	7/9/2022	7/11/2022	1362547 3100 LEBRUN PATH	FUQUAY VARINA, NC 27526-7684	High Grove	CID 0.80 ph 7.5 po4 1.5 fe 0.01 mn 0.031 FSR:taberj, EVT:Lab