



49 Woodside Street Stamford, CT 06902

June 18, 2021

Oak Ridge Condominiums  
Attn. Plaza Realty  
c/o Frank Sweeney

Re: Water Testing  
163 Laurel Ridge Road & Pool House  
South Salem, NY

To Whom It May Concern:

Attached to this letter are the drinking water analysis report for samples collected at the referenced location on June 8, 2021. The samples were collected from 163 Laurel Ridge Road kitchen sink at 8:20 am and the pool house sink at 8:00 am.

The water samples were hand delivered to YORK Analytical Laboratories in Stratford, CT, where they were analyzed for trihalomethanes, lead, copper, bacteria, PFAS / PFOS, and a battery of physical and chemical parameters. The test results are enclosed and are summarized on the following page.

- **Perfluorooctanoic acid (PFOA) and (perfluorooctanesulfonic acid (PFOS)** – As of August 26, 2020 New York State adopted new drinking water standards that set maximum contaminant levels (MCLs) of 10 parts per trillion (ppt) for each.

*For the pool house we found levels at 6.40 ppt for PFOA and 8.01 ppt for PFOS.*

*For 163 Laurel Ridge Road we found levels at 7.17 ppt for PFOA and 9.35 ppt for PFOS.*

- **Trihalomethanes** – Trihalomethanes are a group of four chemicals—chloroform, bromodichloromethane, dibromochloromethane, and bromoform—formed, along with other disinfection by-products, when chlorine or other disinfectants used to control microbial contaminants in drinking water react with naturally occurring organic and inorganic matter in water.

Standard for total trihalomethanes (TTHMs) is 80 ug/L. *For the pool house we found total TTHMs levels of 57.1 ug/L – including Bromodichloromethane 15 ug/L, Bromoform 10 ug/L, Dibromochloromethane 26 ug/L, and chloroform 6.1 ug/L).*

*For 163 Laurel Ridge Road we found total TTHMs levels of 49.0 ug/L – including Bromodichloromethane 13 ug/L, Bromoform 8.8 ug/L, Dibromochloromethane 22 ug/L, and chloroform 5.2 ug/L).*

- Although there is no collective MCLG for this contaminant group, there are individual MCLGs (goals or recommendations) for some of the individual contaminants:
  - *Trihalomethanes: bromodichloromethane (zero); bromoform (zero); dibromochloromethane (0.06 mg/L); chloroform (0.07 mg/L).*
  - *Haloacetic acids: dichloroacetic acid (zero); trichloroacetic acid (0.02 mg/L); monochloroacetic acid (0.07mg/L). Bromoacetic acid and dibromoacetic acid are regulated with this group but have no MCLGs*

- **Hardness** – Hardness is caused by calcium and magnesium. While hardness does not represent a health hazard, “hard water” prevents soap from lathering and reduces the effectiveness of soap and detergents. The following classifications are used to measure **hardness in water**: soft 0 - 17.1 **parts per million (ppm)**; slightly hard 17.1 – 60 **ppm**; moderately hard 60 - 120 **ppm**; hard 120 - 180 **ppm**; and very hard 180 or more **ppm**.

**For the pool house we found hardness level of 224 mg/L.**

**For 163 Laurel Ridge Road we found hardness level of 236 mg/L.**

- **Sodium** – Sodium sometimes enters water through backwash from water softeners or from road de-icing operations, where it is a seasonal problem. Special treatment systems may be needed to lower sodium levels in drinking water. **For the pool house we found levels of 80.6 mg/L and for 163 Laurel Ridge Road we found levels of 77.7 mg/L.**

For individuals on a very low **sodium** diet (500 mg/day), EPA recommends that **drinking-water sodium** not exceed 20 mg/L. In order to avoid adverse effects on taste, EPA recommends that **sodium** concentrations in **drinking water** not exceed 30 to 60 mg/L, a threshold for taste-sensitive segments of the population.

- > **Lead** – Lead is a heavy metal used in a variety of items. Lead can cause several health issues especially for kids 6 and under. For drinking water the EPA has an Action level for lead 15 ppb or 15 ug/L.

Pool House lead level of 1.74 ug/L or 1.74 ppb.

**163 Laurel Ridge Road lead level of Pond 45.2 ug/L or 45.2 ppb.**

The following are good resources on lead:

<http://www.epa.gov/lead/>

<http://www.epa.gov/getleadsafe/>

[http://www.ct.gov/dph/cwp/view.asp?a=3140&q=387550&dphNav\\_GID=1828&dphPNavCtr=|47067](http://www.ct.gov/dph/cwp/view.asp?a=3140&q=387550&dphNav_GID=1828&dphPNavCtr=|47067)


Additional information about drinking water standards can be found on the US EPA website,

<https://www.epa.gov/ground-water-and-drinking-water/national-primary-drinking-water-regulations>

[https://health.ny.gov/environmental/water/drinking/docs/water\\_supplier\\_fact\\_sheet\\_new\\_mcls.pdf](https://health.ny.gov/environmental/water/drinking/docs/water_supplier_fact_sheet_new_mcls.pdf)

Should you have any questions regarding the test report or if you require further assistance, please do not hesitate to call Hygenix Inc. at 203-324-2222. Thank you.

Sincerely,

  
Ryan Ebenhack  
Hygenix Inc.

# Oakridge – South Salem, NY

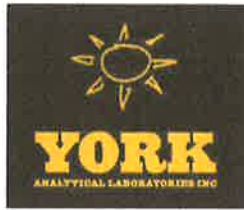
## Summary of Water Test Results

Date – 6/8/2021

Parameter	Pool House	163 Laurel Ridge Road	Reference levels
Trihalomethanes	57.1 ug/l	49.0 ug/l	<80 ug/l*
Nitrite as N	<0.05 mg/l	<0.05 mg/l	<1 mg/l
Chloride	186 mg/l	187 mg/l	<250 mg/l
Fluoride	<0.10 mg/l	<0.10 mg/l	<4 mg/l
Nitrate as N	0.0647 mg/l	<0.05 mg/l	<10 mg/l
Sulfate	34.6 mg/l	34.8 mg/l	250 mg/l
Chlorine	1.8 mg/l	1.8 mg/l	4 mg/L
Turbidity	0.795 NTU	0.439 NTU	<1 NTU
pH	7.99 pH units	8.08 pH units	7-10 pH units
Color	<5.0 color units	<5.0 color units	<15 color units
Iron	<0.278 mg/l	<0.278 mg/l	<0.05 mg/l
Sodium	<b>80.6 mg/l</b>	<b>77.7 mg/l</b>	<b>&lt;20 mg/l</b>
Manganese	40.8 ug/l	23 ug/l	<50 ug/l
Hardness	<b>224 mg/l</b>	<b>236 mg/l</b>	<b>See above text</b>
Copper	0.331 mg/l	0.114 mg/l	1.3 mg/l
Lead	1.74 ug/l	<b>45.2 ug/l</b>	<b>15 ug/l</b>
E. Coli	Absent	Absent	Absent
Total coliform	Absent	Absent	Absent
PFOA	6.40 ng/l	7.17 ng/l	10 ng/l
PFOS	8.01 ng/l	9.35 ng/l	10 ng/l

\*Although there is no collective MCLG for this contaminant group, there are individual MCLGs (goals or recommendations) for some of the individual contaminants:

- Trihalomethanes: bromodichloromethane (zero); bromoform (zero); dibromochloromethane (0.06 mg/L); chloroform (0.07 mg/L).
- Haloacetic acids: dichloroacetic acid (zero); trichloroacetic acid (0.02 mg/L); monochloroacetic acid (0.07mg/L). Bromoacetic acid and dibromoacetic acid are regulated with this group but have no MCLGs.



# Technical Report

prepared for:

**Hygenix, Inc.**  
49 Woodside Street  
Stamford CT, 06902  
**Attention: Ryan Ebenhack**

Report Date: 06/15/2021  
**Client Project ID: Oakridge**  
York Project (SDG) No.: 21F0365

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 1205

PA Cert. No. 68-04440

120 RESEARCH DRIVE  
[www.YORKLAB.com](http://www.YORKLAB.com)

STRATFORD, CT 06615  
(203) 325-1371

132-02 89th AVENUE  
FAX (203) 357-0166

RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

Report Date: 06/15/2021  
Client Project ID: Oakridge  
York Project (SDG) No.: 21F0365

**Hygenix, Inc.**  
49 Woodside Street  
Stamford CT, 06902  
Attention: Ryan Ebenhack

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## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 08, 2021 with a temperature of 5.8 C. The project was identified as your project: **Oakridge**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21F0365-01	PH Pool House	Drinking Water	06/08/2021	06/08/2021
21F0365-02	163 Laurel Ridge Rd	Drinking Water	06/08/2021	06/08/2021

## **General Notes for York Project (SDG) No.: 21F0365**

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

**Approved By:**



Cassie Mosher  
Laboratory Manager

**Date:** 06/15/2021





## Sample Information

**Client Sample ID:** PH Pool House

**York Sample ID:** 21F0365-01

**York Project (SDG) No.**  
21F0365

**Client Project ID**  
Oakridge

**Matrix**  
Drinking Water

**Collection Date/Time**  
June 8, 2021 8:00 am

**Date Received**  
06/08/2021

### ✓ Volatile Organics, Trihalomethanes

### Log-in Notes:

### Sample Notes: VOA-HDSP

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported in LOD/MDL	LOO	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	15		ug/L	0.04	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	06/15/2021 09:00	06/15/2021 15:30	PD
75-25-2	Bromoform	10		ug/L	0.05	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	06/15/2021 09:00	06/15/2021 15:30	PD
124-48-1	Dibromochloromethane	26		ug/L	0.07	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	06/15/2021 09:00	06/15/2021 15:30	PD
67-66-3	Chloroform	6.1		ug/L	0.1	0.5	1	EPA 524.2 Certifications: CTDOH,NELAC-NY10854,NJDEP	06/15/2021 09:00	06/15/2021 15:30	PD

### ✓ Copper by EPA 200.7

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported in LOO	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	0.331		mg/L	0.0222	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/10/2021 07:47	06/14/2021 19:21	EM

### ✓ Hardness, total (as CaCO3)

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported in LOO	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	224		mg/L	1.11	1	EPA 200.7 Certifications: NELAC-NY10854,CTDOH,NJDEP	06/10/2021 07:47	06/14/2021 19:21	EM

### ✓ Iron by EPA 200.7

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported in LOO	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/10/2021 07:47	06/14/2021 19:21	EM

### ✓ Manganese by EPA 200.7

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported in LOO	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	0.0408		mg/L	0.00556	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/10/2021 07:47	06/14/2021 19:21	EM

### ✓ Sodium by EPA 200.7

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported in LOO	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	80.6		mg/L	0.556	1	EPA 200.7 Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP	06/10/2021 07:47	06/14/2021 19:21	EM





## Sample Information

Client Sample ID: PH Pool House

York Sample ID: 21F0365-01

York Project (SDG) No.  
21F0365

Client Project ID  
Oakridge

Matrix  
Drinking Water

Collection Date/Time  
June 8, 2021 8:00 am

Date Received  
06/08/2021

### Lead by EPA 200.8

Sample Prepared by Method: EPA 200.8

### Log-in Notes:

### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	1.74		ug/L	1.00	1	EPA 200.8	06/10/2021 07:44	06/11/2021 11:13	WJM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

### Chloride

Sample Prepared by Method: EPA 300

### Log-in Notes:

### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	186		mg/L	5.00	10	EPA 300.0	06/10/2021 15:29	06/11/2021 10:33	ZTS
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

### Fluoride

Sample Prepared by Method: EPA 300

### Log-in Notes:

### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16984-48-8	Fluoride	ND		mg/L	0.100	1	EPA 300.0	06/09/2021 15:14	06/09/2021 16:22	ZTS
							Certifications:	CTDOH,NELAC-NY10854		

### Nitrate as N

Sample Prepared by Method: EPA 300

### Log-in Notes:

### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	0.0647		mg/L	0.0500	1	EPA 300.0	06/09/2021 15:14	06/09/2021 16:22	ZTS
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

### Nitrite as N

Sample Prepared by Method: EPA 300

### Log-in Notes:

### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND		mg/L	0.0500	1	EPA 300.0	06/09/2021 15:14	06/09/2021 16:22	ZTS
							Certifications:	NELAC-NY10854,CTDOH,PADEP		

### Sulfate as SO4

Sample Prepared by Method: EPA 300

### Log-in Notes:

### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	34.6		mg/L	1.00	1	EPA 300.0	06/09/2021 15:14	06/09/2021 16:22	ZTS
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

### Chlorine, Residual

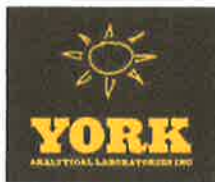
Sample Prepared by Method: Analysis Preparation

### Log-in Notes:

### Sample Notes:

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Chlorine, Residual	1.8	HT-CL	mg/L	0.050	1	SM 4500 Cl-G	06/09/2021 09:21	06/09/2021 09:55	OT
							Certifications:			





### Sample Information

**Client Sample ID:** PH Pool House

**York Sample ID:** 21F0365-01

**York Project (SDG) No.**  
21F0365

**Client Project ID**  
Oakridge

**Matrix**  
Drinking Water

**Collection Date/Time**  
June 8, 2021 8:00 am

**Date Received**  
06/08/2021

#### Color, Apparent

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Color	ND		Color Units	5.00	1	SM 2120B	06/10/2021 00:16	06/10/2021 00:16	AA
	* pH	7.28		Color Units (Pt-Co)	0.500	1	SM 2120B	06/10/2021 00:16	06/10/2021 00:16	AA
							Certifications: CTDOH,NELAC-NY10854,NJDEP,PADEP			
							Certifications:			

#### pH

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* pH	7.99	HT-pH	pH units	0.500	1	SM 4500 H+B	06/10/2021 12:04	06/10/2021 15:36	ALH
							Certifications: CTDOH			

#### Turbidity

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Turbidity	0.795	HT-01	NTU	0.100	1	EPA 180.1	06/14/2021 12:57	06/14/2021 14:26	AD
							Certifications: CTDOH,NELAC-NY10854			

**Analyzed by:** Environmental Labworks Inc.

#### E.Coli

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: \*\*\* DEFAULT PREP \*\*\*

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	E. Coli	Absent		N/A		1	Colilert	06/09/2021 00:00	06/09/2021 00:00	
							Certifications:			

#### Total Coliform

#### Log-in Notes:

#### Sample Notes:

Sample Prepared by Method: \*\*\* DEFAULT PREP \*\*\*

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Coliform	Absent		N/A		1	SM22 9223B(-04)	06/09/2021 00:00	06/09/2021 00:00	
							Certifications:			

### Sample Information

**Client Sample ID:** 163 Laurel Ridge Rd

**York Sample ID:** 21F0365-02

**York Project (SDG) No.**  
21F0365

**Client Project ID**  
Oakridge

**Matrix**  
Drinking Water

**Collection Date/Time**  
June 8, 2021 8:10 am

**Date Received**  
06/08/2021



## Sample Information

**Client Sample ID:** 163 Laurel Ridge Rd

**York Sample ID:** 21F0365-02

**York Project (SDG) No.**  
21F0365

**Client Project ID**  
Oakridge

**Matrix**  
Drinking Water

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06/08/2021

### Volatile Organics, Trihalomethanes

### Log-in Notes:

### Sample Notes: VOA-HDSP

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOD	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	13		ug/L	0.04	0.5	1	EPA 524.2	06/15/2021 09:00	06/15/2021 16:04	PD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
75-25-2	Bromoform	8.8		ug/L	0.05	0.5	1	EPA 524.2	06/15/2021 09:00	06/15/2021 16:04	PD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
124-48-1	Dibromochloromethane	22		ug/L	0.07	0.5	1	EPA 524.2	06/15/2021 09:00	06/15/2021 16:04	PD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		
67-66-3	Chloroform	5.2		ug/L	0.1	0.5	1	EPA 524.2	06/15/2021 09:00	06/15/2021 16:04	PD
								Certifications:	CTDOH,NELAC-NY10854,NJDEP		

### Copper by EPA 200.7

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOD	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	Copper	0.114		mg/L	0.0222	1	EPA 200.7	06/10/2021 07:47	06/14/2021 19:25	EM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

### Hardness, total (as CaCO3)

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOD	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	236		mg/L	1.11	1	EPA 200.7	06/10/2021 07:47	06/14/2021 19:25	EM
							Certifications:	NELAC-NY10854,CTDOH,NJDEP		

### Iron by EPA 200.7

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOD	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 200.7	06/10/2021 07:47	06/14/2021 19:25	EM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

### Manganese by EPA 200.7

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOD	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	0.0203		mg/L	0.00556	1	EPA 200.7	06/10/2021 07:47	06/14/2021 19:25	EM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

### Sodium by EPA 200.7

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOD	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-23-5	Sodium	77.7		mg/L	0.556	1	EPA 200.7	06/10/2021 07:47	06/14/2021 19:25	EM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		



## Sample Information

**Client Sample ID:** 163 Laurel Ridge Rd

**York Sample ID:** 21F0365-02

**York Project (SDG) No.**

21F0365

**Client Project ID**

Oakridge

**Matrix**

Drinking Water

**Collection Date/Time**

June 8, 2021 8:10 am

**Date Received**

06/08/2021

### Lead by EPA 200.8

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 200.8

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	Lead	45.2		ug/L	1.00	1	EPA 200.8	06/10/2021 07:44	06/11/2021 11:16	WJM
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

### Chloride

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	187		mg/L	5.00	10	EPA 300.0	06/10/2021 15:29	06/11/2021 11:44	ZTS
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		

### Fluoride

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16984-48-8	Fluoride	ND		mg/L	0.100	1	EPA 300.0	06/09/2021 15:14	06/09/2021 17:30	ZTS
							Certifications:	CTDOH,NELAC-NY10854		

### Nitrate as N

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	ND		mg/L	0.0500	1	EPA 300.0	06/09/2021 15:14	06/09/2021 17:30	ZTS
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

### Nitrite as N

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-65-0	Nitrite as N	ND		mg/L	0.0500	1	EPA 300.0	06/09/2021 15:14	06/09/2021 17:30	ZTS
							Certifications:	NELAC-NY10854,CTDOH,PADEP		

### Sulfate as SO4

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	34.8		mg/L	1.00	1	EPA 300.0	06/09/2021 15:14	06/09/2021 17:30	ZTS
							Certifications:	NELAC-NY10854,CTDOH,NJDEP,PADEP		

### Chlorine, Residual

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* Chlorine, Residual	1.8	HT-CL	mg/L	0.050	1	SM 4500 Cl-G	06/09/2021 09:21	06/09/2021 09:55	OT
							Certifications:			



## Sample Information

**Client Sample ID:** 163 Laurel Ridge Rd

**York Sample ID:** 21F0365-02

**York Project (SDG) No.**

21F0365

**Client Project ID**

Oakridge

**Matrix**

Drinking Water

**Collection Date/Time**

June 8, 2021 8:10 am

**Date Received**

06/08/2021

### Color, Apparent

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Color	ND		Color Units	5.00	1	SM 2120B	06/10/2021 00:16	06/10/2021 00:16	AA
	* pH	8.01		Color Units (Pt-Co)	0.500	1	SM 2120B	06/10/2021 00:16	06/10/2021 00:16	AA
							Certifications:	CTDOH,NELAC-NY10854,NJDEP,PADEP		
							Certifications:			

### pH

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	* pH	8.08	HT-pH	pH units	0.500	1	SM 4500 H+B	06/10/2021 12:04	06/10/2021 15:36	ALH
							Certifications:	CTDOH		

### Turbidity

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Turbidity	0.439	HT-01	NTU	0.100	1	EPA 180.1	06/14/2021 12:57	06/14/2021 14:26	AD
							Certifications:	CTDOH,NELAC-NY10854		

**Analyzed by:** Environmental Labworks Inc.

### E.Coli

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: \*\*\* DEFAULT PREP \*\*\*

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	E. Coli	Absent		N/A		1	Colilert	06/09/2021 00:00	06/09/2021 00:00	
							Certifications:			

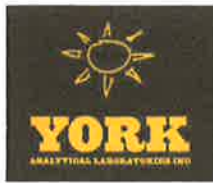
### Total Coliform

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: \*\*\* DEFAULT PREP \*\*\*

CAS No.	Parameter	Result	Flag	Units	Reported to 1.00	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Total Coliform	Absent		N/A		1	SM22 9223B(-04)	06/09/2021 00:00	06/09/2021 00:00	
							Certifications:			



### Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
21F0365-01	PH Pool House	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
21F0365-02	163 Laurel Ridge Rd	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C



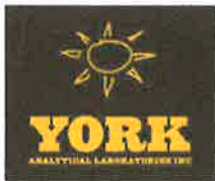
### Sample and Data Qualifiers Relating to This Work Order

VOA-HDSP	Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).-NON-COMPLIANT
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-02	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-ICV	The recovery for this element in the ICV was outside the 95-105% Recovery criteria for EPA 200.7
M-CCV1	The recovery for this element in the Continuing Calibration Verification (CCV) exceeded 110% of the expected value. Positive detections may be biased high.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
HT-pH	HOLDING TIME EXCEEDED. Samples for pH must be measured in the field or within 15 minutes of sample collection.
HT-CL	HOLDING TIME EXCEEDED. Samples for Residual Chlorine determination should be grab samples and must be tested immediately in the Field.
HT-01	This result was reported from an analysis conducted outside of the EPA recommended holding time.
Absent	Absent

### Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.





Non-Dir. Non-dir. flag (Non-Directional Bias ) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

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York Analytical Laboratories, Inc.  
120 Research Drive  
Stratford, CT 06615  
clientservices@yorklab.com  
www.yorklab.com



# Field Chain-of-Custody Record

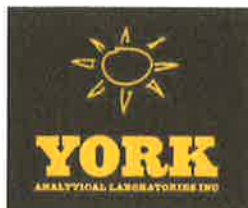
YORK Project No.

21F0365

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below. Your signature binds you to YORK's Standard Terms & Conditions.

Page 1 of 2

YOUR INFORMATION			Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company	Hygenix	Company	Same	Company	Same				RUSH - Next Day	
Address	49 Woodbridge St Stratford, CT	Address		Address					RUSH - Two Day	
Phone	203 324 2222	Phone		Phone					RUSH - Three Day	
Contact	Ebenhack	Contact		Contact					RUSH - Four Day	
E-mail	ebenhack@hygenix.com	E-mail		E-mail					Standard (5-7 Day)	
Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.										
Ryan Ebenhack										
Samples collected by: (print your name above and sign below)										
Sample Identification		Sample Matrix	Date/Time Sampled	Analysis Requested		Report / EDD Type (circle selections)		YORK Reg. Comp.		
PH	Pool House	DW	6/8 8:00	Water Profile Battery	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)		
PH		DW	6/8 8:00	Lead & Copper	QA Report	CT RCP DQ/DUE	EQUIS (Standard)			
PH		DW	6/8 8:00	Tribalomalithanes	NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQUIS			
PH		DW	6/8 8:00	Bacteria	NY ASP B Package	NJDEP SRP HazSite				
						NJDKQP	Other:			
163 Laurel Ridge Rd		DW	6/8 8:10	Water Profile Battery				Container Description		
163 Laurel Ridge Rd		DW	6/8 8:10	Lead & Copper						
163 Laurel Ridge Rd		DW	6/8 8:10	Tribalomalithanes						
163 Laurel Ridge Rd		DW	6/8 8:10	Bacteria						
Comments:										
Preservation: (check all that apply)										
HCl ___ MeOH ___ HNO3 ___ H2SO4 ___ NaOH ___ ZnAc ___										
Ascorbic Acid ___ Other: ___										
Samples Relinquished by / Company		Date/Time	Samples Relinquished by / Company		Date/Time	Special Instruction		Field Filtered Lab to Filter		
Ebenhack		6/8 J11								
Samples Relinquished by / Company		Date/Time	Samples Relinquished by / Company		Date/Time					
Ebenhack										
Samples Relinquished by / Company		Date/Time	Samples Relinquished by / Company		Date/Time	Temp. Received at Lab		5.8		
Ebenhack								Degrees C		



# Technical Report

prepared for:

**Hygenix, Inc.**  
49 Woodside Street  
Stamford CT, 06902  
**Attention: Ryan Ebenhack**

Report Date: 06/15/2021  
**Client Project ID: Oakridge**  
York Project (SDG) No.: 21F0363

CT Cert. No. PH-0723

New Jersey Cert. No. CT005 and NY037



New York Cert. Nos. 10854 and 12058

PA Cert. No. 68-04440

120 RESEARCH DRIVE  
[www.YORKLAB.com](http://www.YORKLAB.com)

STRATFORD, CT 06615  
(203) 325-1371

132-02 89th AVENUE  
FAX (203) 357-0166

RICHMOND HILL, NY 11418  
[ClientServices@yorklab.com](mailto:ClientServices@yorklab.com)

**Hygenix, Inc.**  
49 Woodside Street  
Stamford CT, 06902  
Attention: Ryan Ebenhack

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## Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on June 08, 2021 with a temperature of 5.8 C. The project was identified as your project: **Oakridge**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

<u>York Sample ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
21F0363-01	Pit Pool House	Drinking Water	06/08/2021	06/08/2021
21F0363-02	163 Laurel Ridge Rd	Drinking Water	06/08/2021	06/08/2021
21F0363-03	Field Blank	Drinking Water	06/08/2021	06/08/2021

## **General Notes for York Project (SDG) No.: 21F0363**

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

**Approved By:**



Cassie Mosher  
Laboratory Manager

**Date:** 06/15/2021





## Sample Information

**Client Sample ID:** Pit Pool House

**York Sample ID:** 21F0363-01

**York Project (SDG) No.**

21F0363

**Client Project ID**

Oakridge

**Matrix**

Drinking Water

**Collection Date/Time**

June 8, 2021 8:00 am

**Date Received**

06/08/2021

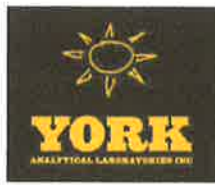
### PFAS, EPA 537 PFOA/PFOS

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	3.04		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 15:59	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	1.88		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 15:59	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	1.84		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 15:59	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	3.38		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 15:59	WL
335-67-1	Perfluorooctanoic acid (PFOA)	6.40		ng/L	1.67	1	EPA 537.1 Certifications: NELAC-NY12058	06/10/2021 11:56	06/14/2021 15:59	WL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	8.01		ng/L	1.67	1	EPA 537.1 Certifications: NELAC-NY12058	06/10/2021 11:56	06/14/2021 15:59	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 15:59	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 15:59	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 15:59	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 15:59	WL
72629-94-8	* Perfluorotridecanoic acid (PFTriDA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 15:59	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 15:59	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 15:59	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 15:59	WL
756426-58-1	* 9CL-PF3ONS	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 15:59	WL
763051-92-9	* 11CL-PF3OUdS	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 15:59	WL
13252-13-6	* HFPO-DA (Gen-X)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 15:59	WL
919005-14-4	* ADONA	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 15:59	WL



## Sample Information

**Client Sample ID:** 163 Laurel Ridge Rd

**York Sample ID:** 21F0363-02

**York Project (SDG) No.**

21F0363

**Client Project ID**

Oakridge

**Matrix**

Drinking Water

**Collection Date/Time**

June 8, 2021 8:10 am

**Date Received**

06/08/2021

### PFAS, EPA 537 PFOA/PFOS

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	3.31		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 16:52	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	2.01		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 16:52	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	1.95		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 16:52	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	3.90		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 16:52	WL
335-67-1	Perfluorooctanoic acid (PFOA)	7.17		ng/L	1.67	1	EPA 537.1 Certifications: NELAC-NY12058	06/10/2021 11:56	06/14/2021 16:52	WL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	9.35		ng/L	1.67	1	EPA 537.1 Certifications: NELAC-NY12058	06/10/2021 11:56	06/14/2021 16:52	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 16:52	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 16:52	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 16:52	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 16:52	WL
72629-94-8	* Perfluorotridecanoic acid (PFTriDA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 16:52	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 16:52	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 16:52	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 16:52	WL
756426-58-1	* 9CL-PF3ONS	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 16:52	WL
763051-92-9	* 11CL-PF3OUDS	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 16:52	WL
13252-13-6	* HFPO-DA (Gen-X)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 16:52	WL
919005-14-4	* ADONA	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 16:52	WL

## Sample Information

**Client Sample ID:** Field Blank

**York Sample ID:** 21F0363-03

**York Project (SDG) No.**

21F0363

**Client Project ID**

Oakridge

**Matrix**

Drinking Water

**Collection Date/Time**

June 8, 2021 9:11 am

**Date Received**

06/08/2021



## Sample Information

**Client Sample ID:** Field Blank

**York Sample ID:** 21F0363-03

**York Project (SDG) No.**

21F0363

**Client Project ID**

Oakridge

**Matrix**

Drinking Water

**Collection Date/Time**

June 8, 2021 9:11 am

**Date Received**

06/08/2021

### PFAS, EPA 537 PFOA/PFOS

### Log-in Notes:

### Sample Notes:

Sample Prepared by Method: EPA 537.1 SPE DVB

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
375-73-5	* Perfluorobutanesulfonic acid (PFBS)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 17:45	WL
307-24-4	* Perfluorohexanoic acid (PFHxA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 17:45	WL
375-85-9	* Perfluoroheptanoic acid (PFHpA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 17:45	WL
355-46-4	* Perfluorohexanesulfonic acid (PFHxS)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 17:45	WL
335-67-1	Perfluorooctanoic acid (PFOA)	ND		ng/L	1.67	1	EPA 537.1 Certifications: NELAC-NY12058	06/10/2021 11:56	06/14/2021 17:45	WL
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		ng/L	1.67	1	EPA 537.1 Certifications: NELAC-NY12058	06/10/2021 11:56	06/14/2021 17:45	WL
375-95-1	* Perfluorononanoic acid (PFNA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 17:45	WL
335-76-2	* Perfluorodecanoic acid (PFDA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 17:45	WL
2058-94-8	* Perfluoroundecanoic acid (PFUnA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 17:45	WL
307-55-1	* Perfluorododecanoic acid (PFDoA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 17:45	WL
72629-94-8	* Perfluorotridecanoic acid (PFTriDA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 17:45	WL
376-06-7	* Perfluorotetradecanoic acid (PFTA)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 17:45	WL
2355-31-9	* N-MeFOSAA	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 17:45	WL
2991-50-6	* N-EtFOSAA	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 17:45	WL
756426-58-1	* 9CL-PF3ONS	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 17:45	WL
763051-92-9	* 11CL-PF3OUdS	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 17:45	WL
13252-13-6	* HFPO-DA (Gen-X)	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 17:45	WL
919005-14-4	* ADONA	ND		ng/L	1.67	1	EPA 537.1 Certifications:	06/10/2021 11:56	06/14/2021 17:45	WL





## Sample and Data Qualifiers Relating to This Work Order

### Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.



**NOTE:** YORK's Standard Terms & Conditions are listed on the back side of this document. This document serves as your written authorization for YORK to proceed with the analyses requested below.

Your signature binds you to YORK's Standard Terms & Conditions

## Field Chain-of-Custody Record

YORK Project No.

21FD363

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YOUR INFORMATION		Report To:		Invoice To:		YOUR Project Number		Turn-Around Time	
Company:	Hygenix	Company:	Same	Company:	Same	Oakridge		RUSH - Next Day	
Address:	44 Woodbridge St Stamford, CT	Address:		Address:				RUSH - Two Day	
Phone:	203 334 2272	Phone:		Phone:		Oakridge		RUSH - Three Day	
Contact:	Chenback	Contact:		Contact:				RUSH - Four Day	
								Standard (5-7 Day)	X

E-mail: [lebenhack@hugoboss.com](mailto:lebenhack@hugoboss.com) E-sign:

Samples Collected by: (print your name above and sign below)

### Sample Identification

Pit Pool House

163 Laurel Ridge Rd

Field Blank

**Comments:**

**Preservation:** (check all that apply)

HCl	MeOH	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	ZnAc
Ascorbic Acid					
Other:					
Field Filtered					
Lab to Filter					

[illegible]

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Degrees C