

**New York City Department of Environmental Protection
Bureau of Water Supply**

**WWTP Water Quality Sampling Monitoring Semiannual Report
(January 1 – June 30, 2020)**

September 2020

*Prepared in accordance with Section 6.2 of the NYSDOH
2017 Filtration Avoidance Determination*



Prepared by: DEP, Bureau of Water Supply

Introduction

The attached computer output was prepared in accordance with DEP's 2017 Long-term Watershed Protection Program and NYSDOH's 2017 Filtration Avoidance Determination. It reports the results of DEP's monitoring of all New York City-owned wastewater treatment plants (WWTPs) and all non-City-owned WWTPs discharging in the Catskill and Delaware (CAT/DEL) watersheds from January 1, 2020 through June 30, 2020. WWTPs discharging in the Croton Falls basin, located East of the Hudson River, are also included in this report. The Croton Falls pump station is considered part of the FAD watershed when in operation, and the pump station was operating for part of January and February of 2020. The Cross River pump station was not in operation during this period.

The City's WWTP Compliance and Inspection Program is described in Section 2.5.2 of the *New York City Department of Environmental Protection Long-Term Watershed Protection Plan* (December 2016).

The computer output is divided into four tables. The first table, a subset of the second table, lists all of the DEP samples that contravened State Pollutant Discharge Elimination System (SPDES) limits. The second table shows the results by sample date comparing effluent concentrations in DEP's samples with the limits for the corresponding parameters in the SPDES permits that are currently on file with DEP. The third table is a listing of the raw data for all samples collected in this half year period. The fourth table contains the data qualifiers. Note that DEP's samples are surveillance, not regulatory samples, and single samples that exceed limits may not constitute a true SPDES violation.

The third table of this report is simply an output of the raw data and, as such, includes coding conventions where applicable. Parameters not detected in the effluent are indicated with a "<" sign and the reporting level. For example, settleable solids <0.1 mgL⁻¹ means that the settleable solids concentration in the effluent was less than the reporting level of 0.10 mgL⁻¹. Errors occurring in the field or in the lab are noted by "Error". Fcoli code E means estimated. This report mainly tabulates effluent data; however, influent data are included and marked with an "*" in Table 3 for the five plants that require percent removal calculations (Grand Gorge, Pine Hill, Tannersville, Grahamsville, and Margaretville).

As an added note, during this six-month period the Croton Falls Pump Station was in operation from January 1 to January 22 and February 3 to February 9. The Cross River Pump Station was not used during this time period.

During this sampling period, January-June 2020, monthly sampling was discontinued at non-DEP WWTPs from March through June as part of the DEP's CoVID Reduced Monitoring Plan.

Table 1. DEP samples that contravened SPDES limits January - July 2020.

Catskill System:

<u>Facility</u>	<u>Date</u>	<u>Parameter</u>	<u>Daily Measurement</u>	<u>SPDES Limit</u>
Trailside at Hunter LLC	15JAN20	Ammonia	4.93	2.00 mgL ⁻¹
Trailside at Hunter LLC	15JAN20	Ammonia	5.89	2.00 mgL ⁻¹
Trailside at Hunter LLC	19FEB20	Ammonia	17.0	2.00 mgL ⁻¹
Trailside at Hunter LLC	19FEB20	Ammonia	20.1	2.00 mgL ⁻¹
Trailside at Hunter LLC	19MAR20	Ammonia	7.49	2.00 mgL ⁻¹
Trailside at Hunter LLC	19MAR20	Ammonia	7.26	2.00 mgL ⁻¹
Mountain View Estates	09JAN20	Ammonia	4.74	2.20 mgL ⁻¹
Windham	05MAR20	Tot. Chlor. Res.	0.11	0.10 mgL ⁻¹

Delaware System:

<u>Facility</u>	<u>Date</u>	<u>Parameter</u>	<u>Daily Measurement</u>	<u>SPDES Limit</u>
Delhi	29JAN20	Turbidity	6.2	5.0 NTU
Delhi	19FEB20	Sett. Solids	0.2	0.1 mgL ⁻¹
Delhi	11MAR20	Sett. Solids	0.2	0.1 mgL ⁻¹
Delhi	11MAR20	Phosphorus	0.595	0.110 mgL ⁻¹

East of Hudson System (Croton Falls only):

<u>Facility</u>	<u>Date</u>	<u>Parameter</u>	<u>Daily Measurement</u>	<u>SPDES Limit</u>
none				

Table 2. Results of the comparison of effluent concentrations in DEP's samples with the limits of SPDES permits January - July 2020.

Catskill System:

Ashland WTP

date	Parameter	SPDES Violation	SPDES Limit
20FEB20		no violations	
05MAR20		no violations	

Boiceville WWTP

date	Parameter	SPDES Violation	SPDES Limit
16JAN20		no violations	
13FEB20		no violations	
12MAR20		no violations	

Elka Park Association (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
08JAN20		no violations	
06FEB20		no violations	
12MAR20		no violations	

Grand Gorge (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
07JAN20		no violations	
08JAN20		no violations	
21JAN20		no violations	
22JAN20		no violations	
04FEB20		no violations	
05FEB20		no violations	
18FEB20		no violations	
19FEB20		no violations	
03MAR20		no violations	
04MAR20		no violations	
17MAR20		no violations	
18MAR20		no violations	
07APR20		no violations	
08APR20		no violations	
21APR20		no violations	
22APR20		no violations	
05MAY20		no violations	
06MAY20		no violations	
19MAY20		no violations	
20MAY20		no violations	

Grand Gorge (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
02JUN20		no violations	
03JUN20		no violations	
16JUN20		no violations	
17JUN20		no violations	

Grand Gorge--% removals

date	Parameter	SPDES Violation	SPDES Limit
07JAN20		% removals okay	
21JAN20		% removals okay	
04FEB20		% removals okay	
18FEB20		% removals okay	
03MAR20		% removals okay	
17MAR20		% removals okay	
07APR20		% removals okay	
21APR20		% removals okay	
05MAY20		% removals okay	
19MAY20		% removals okay	
02JUN20		% removals okay	
16JUN20		% removals okay	

Trailside at Hunter LLC (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
15JAN20	Ammonia	4.93	2.00 mgL ⁻¹
15JAN20	Ammonia	5.89	2.00 mgL ⁻¹
19FEB20	Ammonia	17.0	2.00 mgL ⁻¹
19FEB20	Ammonia	20.1	2.00 mgL ⁻¹
19MAR20	Ammonia	7.49	2.00 mgL ⁻¹
19MAR20	Ammonia	7.26	2.00 mgL ⁻¹

Hunter (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
08JAN20		no violations	
28JAN20		no violations	
19FEB20		no violations	
20FEB20		no violations	
19MAR20		no violations	

Mountain View Estates (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
09JAN20	Ammonia	4.74	2.20 mgL ⁻¹

Olive Woods LLC (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
16JAN20		no violations	
13FEB20		no violations	
12MAR20		no violations	

Pine Hill (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
07JAN20		no violations	
08JAN20		no violations	
21JAN20		no violations	
22JAN20		no violations	
04FEB20		no violations	
05FEB20		no violations	
18FEB20		no violations	
19FEB20		no violations	
03MAR20		no violations	
04MAR20		no violations	
17MAR20		no violations	
18MAR20		no violations	
07APR20		no violations	
08APR20		no violations	
21APR20		no violations	
22APR20		no violations	
05MAY20		no violations	
06MAY20		no violations	
19MAY20		no violations	
20MAY20		no violations	

Pine Hill (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
02JUN20		no violations	
03JUN20		no violations	
16JUN20		no violations	
17JUN20		no violations	

Pine Hill--% removals

date	Parameter	SPDES Violation	SPDES Limit
07JAN20		% removals okay	
21JAN20		% removals okay	
04FEB20		% removals okay	
18FEB20		% removals okay	
03MAR20		% removals okay	
17MAR20		% removals okay	
07APR20		% removals okay	
21APR20		% removals okay	
05MAY20		% removals okay	
19MAY20		% removals okay	
02JUN20		% removals okay	
16JUN20		% removals okay	

Prattsville WTP

date	Parameter	SPDES Violation	SPDES Limit
09JAN20		no violations	
28JAN20		no violations	
06FEB20		no violations	
05MAR20		no violations	

Tannersville (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
07JAN20		no violations	
08JAN20		no violations	
21JAN20		no violations	
22JAN20		no violations	
04FEB20		no violations	
05FEB20		no violations	
18FEB20		no violations	
19FEB20		no violations	
03MAR20		no violations	
04MAR20		no violations	
17MAR20		no violations	
18MAR20		no violations	
07APR20		no violations	
08APR20		no violations	
21APR20		no violations	
22APR20		no violations	
05MAY20		no violations	
06MAY20		no violations	
19MAY20		no violations	
20MAY20		no violations	

Tannersville (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
02JUN20		no violations	
03JUN20		no violations	
16JUN20		no violations	
17JUN20		no violations	

Tannersville--% removals

date	Parameter	SPDES Violation	SPDES Limit
07JAN20		% removals okay	
21JAN20		% removals okay	
04FEB20		% removals okay	
18FEB20		% removals okay	
03MAR20		% removals okay	
17MAR20		% removals okay	
07APR20		% removals okay	
21APR20		% removals okay	
05MAY20		% removals okay	
19MAY20		% removals okay	
02JUN20		% removals okay	
16JUN20		% removals okay	

Windham (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
09JAN20		no violations	
06FEB20		no violations	
05MAR20	Tot. Chlor. Res.	0.11	0.10 mgL ⁻¹

Delaware System:

Andes

date	Parameter	SPDES Violation	SPDES Limit
22JAN20		no violations	
29JAN20		no violations	
19FEB20		no violations	
11MAR20		no violations	
16MAR20		no violations	

Delhi WWTP

date	Parameter	SPDES Violation	SPDES Limit
22JAN20		no violations	
29JAN20	Turbidity	6.2	5.0 NTU
19FEB20	Settleable Solids	0.2	0.1 mgL ⁻¹
11MAR20	Settleable Solids	0.2	0.1 mgL ⁻¹
11MAR20	Phosphorus	0.595	0.110 mgL ⁻¹

Fleischmanns WWTP

date	Parameter	SPDES Violation	SPDES Limit
08JAN20		no violations	
29JAN20		no violations	
05FEB20		no violations	
04MAR20		no violations	
16MAR20		no violations	

Grahamsville WWTP

date	Parameter	SPDES Violation	SPDES Limit
08JAN20		no violations	
05FEB20		no violations	
24FEB20		no violations	
04MAR20		no violations	
01APR20		no violations	
06MAY20		no violations	
03JUN20		no violations	

Grahamsville WWTP--% removals

date	Parameter	SPDES Violation	SPDES Limit
08JAN20		% removals okay	
05FEB20		% removals okay	
04MAR20		% removals okay	
01APR20		% removals okay	
06MAY20		% removals okay	
03JUN20		% removals okay	

Hanah Country Inn and Golf Resort

date	Parameter	SPDES Violation	SPDES Limit
22JAN20		no violations	
19FEB20		no violations	
11MAR20		no violations	

Hobart

date	Parameter	SPDES Violation	SPDES Limit
08JAN20		no violations	
29JAN20		no violations	
05FEB20		no violations	
04MAR20		no violations	

Margaretville

date	Parameter	SPDES Violation	SPDES Limit
07JAN20		no violations	
08JAN20		no violations	
21JAN20		no violations	
22JAN20		no violations	
04FEB20		no violations	
05FEB20		no violations	
18FEB20		no violations	
19FEB20		no violations	
03MAR20		no violations	
04MAR20		no violations	
17MAR20		no violations	
18MAR20		no violations	
07APR20		no violations	
08APR20		no violations	
21APR20		no violations	
22APR20		no violations	

Margaretville - continued

date	Parameter	SPDES Violation	SPDES Limit
05MAY20		no violations	
06MAY20		no violations	
19MAY20		no violations	
20MAY20		no violations	
02JUN20		no violations	
03JUN20		no violations	
16JUN20		no violations	
17JUN20		no violations	

Margaretville--% removals

date	Parameter	SPDES Violation	SPDES Limit
07JAN20		% removals okay	
21JAN20		% removals okay	
04FEB20		% removals okay	
18FEB20		% removals okay	
03MAR20		% removals okay	
17MAR20		% removals okay	
07APR20		% removals okay	
21APR20		% removals okay	
05MAY20		% removals okay	
19MAY20		% removals okay	
02JUN20		% removals okay	
16JUN20		% removals okay	

Mountainside Farms Inc.

date	Parameter	SPDES Violation	SPDES Limit
08JAN20		no violations	
29JAN20		no violations	
05FEB20		no violations	
04MAR20		no violations	

Denver Sewer Corp.

date	Parameter	SPDES Violation	SPDES Limit
08JAN20		no violations	
05FEB20		no violations	
04MAR20		no violations	

Stamford WWTP

date	Parameter	SPDES Violation	SPDES Limit
08JAN20		no violations	
29JAN20		no violations	
05FEB20		no violations	
04MAR20		no violations	
09MAR20		no violations	

Walton WWTP

date	Parameter	SPDES Violation	SPDES Limit
22JAN20		no violations	
29JAN20		no violations	
19FEB20		no violations	
24FEB20		no violations	
11MAR20		no violations	

Robert W. Harold Campus

date	Parameter	SPDES Violation	SPDES Limit
22JAN20		no violations	
19FEB20		no violations	
11MAR20		no violations	

East of Hudson System: (Croton Falls Pump Station was in operation for part of Jan and Feb 2020; Cross River pump station was off)

Carmel WWTP

date	Parameter	SPDES Violation	SPDES Limit
02JAN20		no violations	
30JAN20		no violations	
05FEB20		no violations	
10FEB20		no violations	
20FEB20		no violations	
04MAR20		no violations	
11MAR20		no violations	

The Fairways at Hill and Dale

date	Parameter	SPDES Violation	SPDES Limit
02JAN20		no violations	
30JAN20		no violations	
05FEB20		no violations	
20FEB20		no violations	
04MAR20		no violations	
17MAR20		no violations	

Kent Manor Sewer Corporation

date	Parameter	SPDES Violation	SPDES Limit
02JAN20		no violations	
30JAN20		no violations	
05FEB20		no violations	
20FEB20		no violations	
04MAR20		no violations	
17MAR20		no violations	

Mahopac STP

date	Parameter	SPDES Violation	SPDES Limit
08JAN20		no violations	
30JAN20		no violations	
31JAN20		no violations	
10FEB20		no violations	
11FEB20		no violations	
18FEB20		no violations	

04MAR20	no violations
11MAR20	no violations
01APR20	no violations
12MAY20	no violations
09JUN20	no violations

Catskill System

Table 3. Raw Data for CAT/DEL WWTP effluent samples collected January – June 2020. Influent data (*) is included for the five plants that require percent removal calculations (Grand Gorge, Pine Hill, Tannersville, Grahamsville, and Margaretville).

Plant	Sample Date	Flow	BOD5	CBOD5	CL	DO	FColi	NH3	NO3	pH	SETSLDS	SUSPSLDS	TCR	Temperature	TP	Turbidity	MBAS	TDS	TKN
Ashland WTP	2020-02-20		<3.0			10.4	<1	1.06		6.47	<0.1	<1.0		7.7	35	0.20			
Ashland WTP	2020-03-05		<3.0			10.4	<1	0.20		6.27	<0.1	<1.1		8.3	31	<0.1			
Boiceville WTP	2020-01-16	0.014		<3.0		10.7	<1	<0.20		7.27	<0.1	<1.0		13.0	116	0.15			
Boiceville WTP	2020-01-16			<3.0				<0.20				<1.0			132				
Boiceville WTP	2020-02-13	0.025		<3.0		11.0	<1	0.26		7.39	<0.1	<1.0		10.2	54	0.25			
Boiceville WTP	2020-03-12	0.02		<3.0		10.9	<1	<0.20		7.38	<0.1	<1.0		12.2	88	0.30			
Elka Park	2020-01-08			<3.0		9.9	<1	<0.20		7.66	<0.1	<1.0		10.9	135	0.15			
Elka Park	2020-02-06			<3.0		12.0	<1	<0.20		7.50	<0.1	<1.0		5.1	142	0.10			
Elka Park	2020-03-12			<3.0		10.5	<1	<0.20		7.37	<0.1	<1.0		10.3	158	0.25			
Grand Gorge*	2020-01-07			44.3								72.0							
Grand Gorge	2020-01-07			<3.0				<0.20				<1.0			8				
Grand Gorge	2020-01-08						<1												
Grand Gorge*	2020-01-21			61.2								50.0							
Grand Gorge	2020-01-21			<3.0				<0.20				<1.0			9				
Grand Gorge	2020-01-22						<1												
Grand Gorge*	2020-02-04			95.8								95.0							
Grand Gorge	2020-02-04			<3.0				<0.20				<1.1			8				
Grand Gorge	2020-02-05						<1												
Grand Gorge*	2020-02-18			43.9								57.0							
Grand Gorge	2020-02-18			<3.0				<0.20				<1.1			5				
Grand Gorge	2020-02-19						<1												
Grand Gorge*	2020-03-03			47.2								81.4							
Grand Gorge	2020-03-03			<3.0				<0.20				<1.0			5				
Grand Gorge	2020-03-04						<1												
Grand Gorge*	2020-03-17			63.4								82.5							
Grand Gorge	2020-03-17			<3.0				<0.20				<1.0			6				
Grand Gorge	2020-03-18						<1												
Grand Gorge*	2020-04-07			49.0								65.6							
Grand Gorge	2020-04-07			<3.0				<0.20				<1.0			9				
Grand Gorge	2020-04-08						<1												
Grand Gorge*	2020-04-21			95.6								91.0							
Grand Gorge	2020-04-21			3.4				<0.20				<1.1			7				
Grand Gorge	2020-04-22						<1												
Grand Gorge*	2020-05-05			68.6								59.7							
Grand Gorge	2020-05-05			<3.0				<0.20				<1.0			7				
Grand Gorge	2020-05-06						<1												
Grand Gorge	2020-05-19							<0.20											
Grand Gorge*	2020-05-19			83.8								95.3							
Grand Gorge	2020-05-19			<3.0				Error				<1.1			9				
Grand Gorge	2020-05-20						<1												
Grand Gorge*	2020-06-02			185								308							
Grand Gorge	2020-06-02			<3.0				<0.20				<1.0			19				
Grand Gorge	2020-06-03						<1												
Grand Gorge*	2020-06-16			115								167							

Catskill System

Plant	Sample Date	Flow	BOD5	CBOD5	CL	DO	FColi	NH3	NO3	pH	SETSLDS	SUSPSLDS	TCR	Temperature	TP	Turbidity	MBAS	TDS	TKN
Grand Gorge	2020-06-16			<3.0				<0.20				<1.0			39				
Grand Gorge	2020-06-17						<1												
Trailside at Hunter LLC	2020-01-15			<3.0		9.1	<1	4.93		6.56	<0.1	<1.0	<0.05	6.4	9	0.15			
Trailside at Hunter LLC	2020-01-15			<3.0				5.89				<1.1	<0.05		8				
Trailside at Hunter LLC	2020-02-19							20.1											
Trailside at Hunter LLC	2020-02-19			3.7		9.8	<1	17.0		6.51	<0.1	<1.0	<0.05	5.3	13	0.15			
Trailside at Hunter LLC	2020-02-19									6.50				5.4		0.15			
Trailside at Hunter LLC	2020-02-19			4.6				Error				2.5	<0.05		18				
Trailside at Hunter LLC	2020-03-19							7.49											
Trailside at Hunter LLC	2020-03-19			3.9		8.1	<1	7.26		6.89	<0.1	2.0	<0.05	7.0	14	0.55			
Trailside at Hunter LLC	2020-03-19			3.4				Error				5.8	<0.05		25				
Hunter WTP	2020-01-08		<3.0			11.5	<1	<0.20		6.62	<0.1	<1.0	<0.05	7.6	19	0.15			
Hunter WTP	2020-01-28									6.80				6.7		0.75			
Hunter WTP	2020-02-19		<3.0			11.3	<1	0.78		6.63	<0.1	<1.0	<0.05	6.7	129	0.20			
Hunter WTP	2020-02-20		<3.0					0.24				<1.0	<0.05		130				
Hunter WTP	2020-03-19		<3.0			11.3	<1	0.25		6.47	<0.1	<1.1	<0.05	8.5	15	0.10			
Mountain View	2020-01-09			<3.0		9.9	<1	4.74		8.22	<0.1	1.2		15.0	198	4.5			
Olive Woods	2020-01-16			<3.0		10.6	<1	<0.20		8.04	<0.1	<1.0		10.7	15	0.10			
Olive Woods	2020-02-13	0.0041		<3.0		12.7	<1	<0.20		7.05	<0.1	<1.1		2.5	3	0.15			
Olive Woods	2020-03-12	0.0008		<3.0		10.8	<1	<0.20		7.66	<0.1	<1.0		10.5	<3	0.25			
Pine Hill*	2020-01-07		61.8									67.0							
Pine Hill	2020-01-07		<3.0					<0.20				<1.1			8				
Pine Hill	2020-01-08						<1												
Pine Hill*	2020-01-21		75.6									93.0							
Pine Hill	2020-01-21		<3.0					1.24				<1.1			12				
Pine Hill	2020-01-22						<1												
Pine Hill*	2020-02-04		52.4									40.5							
Pine Hill	2020-02-04		<3.0					<0.20				<1.1			12				
Pine Hill	2020-02-05						<1												
Pine Hill*	2020-02-18		105									103							
Pine Hill	2020-02-18		<3.0					0.43				<1.0			14				
Pine Hill	2020-02-19						<1												
Pine Hill*	2020-03-03		52.4									75.0							
Pine Hill	2020-03-03		<3.0					<0.20				<1.1			10				
Pine Hill	2020-03-04						<1												
Pine Hill*	2020-03-17		61.0									85.2							
Pine Hill	2020-03-17		<3.0					<0.20				<1.1			15				
Pine Hill	2020-03-18						<1												
Pine Hill*	2020-04-07		86.3									80.9							
Pine Hill	2020-04-07		<3.0					<0.20				<1.1			11				
Pine Hill	2020-04-08						<1												
Pine Hill*	2020-04-21		26.2									31.1							
Pine Hill	2020-04-21		<3.0					<0.20				<1.1			6				
Pine Hill	2020-04-22						<1												
Pine Hill*	2020-05-05		29.9									18.7							
Pine Hill	2020-05-05		<3.0					<0.20				<1.1			5				
Pine Hill	2020-05-06						<1												
Pine Hill*	2020-05-19		38.5									51.6							

Catskill System

Plant	Sample Date	Flow	BOD5	CBOD5	CL	DO	FColi	NH3	NO3	pH	SETSLDS	SUSPSLDS	TCR	Temperature	TP	Turbidity	MBAS	TDS	TKN
Pine Hill	2020-05-19		<3.0					<0.20				<1.1			6				
Pine Hill	2020-05-20						<1												
Pine Hill*	2020-06-02		46.1									30.1							
Pine Hill	2020-06-02		<3.0					<0.20				<1.1		6					
Pine Hill	2020-06-03						<1												
Pine Hill*	2020-06-16		110									92.1							
Pine Hill	2020-06-16		<3.0					<0.20				<1.1		9					
Pine Hill	2020-06-17						E2												
Prattsville WTP	2020-01-09			<3.0								<1.0			23				2
Prattsville WTP	2020-01-09			<3.0		5.9	<1			7.07	<0.1	<1.1		12.5	10	0.10			1.5
Prattsville WTP	2020-01-28									7.01				11.9		0.15			
Prattsville WTP	2020-02-06			<3.0		6.9	<1			6.87	<0.1	<1.0		11.8	29	0.10			0.74
Prattsville WTP	2020-03-05			<3.0		5.3	<1			6.90	<0.1	<1.0		11.0	26	0.10			3.8
Tannersville*	2020-01-07			67.2								81.0							
Tannersville	2020-01-07			<3.0				<0.20				<1.0			11				
Tannersville	2020-01-08						<1												
Tannersville*	2020-01-21			133								261							
Tannersville	2020-01-21			<3.0				<0.20				<1.0			9				
Tannersville	2020-01-22						<1												
Tannersville*	2020-02-04			108								144							
Tannersville	2020-02-04			<3.0				0.20				<1.1			9				
Tannersville	2020-02-05						<1												
Tannersville*	2020-02-18			115								146							
Tannersville	2020-02-18			<3.0				<0.20				<1.1			8				
Tannersville	2020-02-19						<1												
Tannersville*	2020-03-03			85.2								96.5							
Tannersville	2020-03-03			<3.0				<0.20				<1.0			7				
Tannersville	2020-03-04						<1												
Tannersville*	2020-03-17			69.0								71.7							
Tannersville	2020-03-17			<3.0				<0.20				<1.0			6				
Tannersville	2020-03-18						<1												
Tannersville*	2020-04-07			74.0								87.3							
Tannersville	2020-04-07			<3.0				<0.20				<1.1			9				
Tannersville	2020-04-08						<1												
Tannersville*	2020-04-21			48.9								57.4							
Tannersville	2020-04-21			<3.0				<0.20				<1.1			6				
Tannersville	2020-04-22						<1												
Tannersville*	2020-05-05			54.7								54.5							
Tannersville	2020-05-05			<3.0				<0.20				<1.1			6				
Tannersville	2020-05-06						<1												

Catskill System

Plant	Sample Date	Flow	BOD5	CBOD5	CL	DO	FColi	NH3	NO3	pH	SETSLDS	SUSPSLDS	TCR	Temperature	TP	Turbidity	MBAS	TDS	TKN
Tannersville*	2020-05-19			134								173							
Tannersville	2020-05-19			<3.0				<0.20				<1.0		14					
Tannersville	2020-05-20						<1												
Tannersville*	2020-06-02			130								160							
Tannersville	2020-06-02			<3.0				<0.20				<1.1		29					
Tannersville	2020-06-03						<1												
Tannersville*	2020-06-16			166								187							
Tannersville	2020-06-16			<3.0				<0.20				<1.1		89					
Tannersville	2020-06-17						<1												
Windham WTP	2020-01-09		<3.0			12.2	<1			6.00	<0.1	<1.0	<0.05	6.1	19	0.10			
Windham WTP	2020-01-09		<3.0									<1.1	<0.05		29				
Windham WTP	2020-02-06		<3.0			11.8	<1			6.03	<0.1	<1.0	<0.05	6.8	9	0.20			
Windham WTP	2020-02-26									6.10				7.5		0.20			
Windham WTP	2020-03-05		<3.0			11.8	<1			6.66	<0.1	<1.0	0.11	5.7	8	0.10			

Delaware System

Plant	Sample Date	Flow	BOD5	CBOD5	CL	DO	FColi	NH3	NO3	pH	SETSLDS	SUSPSLDS	TCR	Temperature	TP	Turbidity	MBAS	TDS	TKN
Andes	2020-01-22	0.069	<3.0			11.5	<1	<0.20		7.80	<0.1	<1.0		7.6	22	<0.1			
Andes	2020-01-29	0.074	<3.0					<0.20			<0.1	<1.1			34	0.35			
Andes	2020-02-19	0.071	<3.0			12.0	<1	<0.20		7.47	<0.1	<1.1		7.0	23	0.30			
Andes	2020-03-11	0.069	<3.0			11.4	<1	<0.20		7.37	<0.1	<1.2		7.4	20	0.15			
Andes	2020-03-16									7.22				7.6		0.10			
Delhi	2020-01-22	0.648	<3.0			9.5	<1	<0.20		7.51	<0.1	7.5	<0.04	12.5	95	1.1			0.67
Delhi	2020-01-29	0.735	<3.0					<0.20			0.1	10.0	<0.04		103	6.2			0.88
Delhi	2020-02-19	0.768	<3.0			9.5	<1	<0.20		7.60	0.2	1.4	<0.04	14.4	57	0.30			0.87
Delhi	2020-03-11	0.657	<3.0			8.9	<1	<0.20		7.54	0.2	1.8	<0.04	15.8	595	0.40			0.81
Denver Sewer Corp.	2020-01-08	0.014	<3.0			10.4	<1	<0.20		7.88	<0.1	<1.0	<0.04	5.3	41	1.1			
Denver Sewer Corp.	2020-02-05		<3.0			11.6	<1	<0.20		7.59	<0.1	<1.0	<0.04	4.4	35	0.40			
Denver Sewer Corp.	2020-03-04	0.009	<3.0			11.5	<1	<0.20		7.29	<0.1	<1.0	<0.04	4.6	39	1.4			
Fleischmanns	2020-01-08	0.018	<3.0			11.0	<1	<0.20		7.75	<0.1	<1.0	<0.04	7.0	40	0.65			
Fleischmanns	2020-01-29	0.034	<3.0					<0.20			<0.1	<1.1	<0.04		46	0.30			
Fleischmanns	2020-02-05	0.012	<3.0			11.0	<1	0.35		7.22	<0.1	<1.0	<0.04	6.4	61	0.40			
Fleischmanns	2020-03-04	0.027	<3.0			11.7	<1	<0.20		7.07	<0.1	<1.0	<0.04	6.3	13	0.10			
Fleischmanns	2020-03-16									7.16				7.0		0.10			
Grahamsville*	2020-01-08			76.8								126							
Grahamsville	2020-01-08		<3.0					<0.20				<1.0			11				
Grahamsville	2020-01-08						<1												
Grahamsville	2020-02-05						<1												
Grahamsville*	2020-02-05			75.4								79.0							
Grahamsville	2020-02-05		<3.0					0.32				<1.1			27				
Grahamsville	2020-02-24									7.25				9.5		0.10			
Grahamsville*	2020-03-04			109								139							
Grahamsville	2020-03-04		<3.0					0.22				<1.1			19				
Grahamsville	2020-03-04						<1												
Grahamsville	2020-04-01						<1												
Grahamsville*	2020-04-01			57.6								53.4							
Grahamsville	2020-04-01		<3.0					<0.20				<1.0			33				
Grahamsville*	2020-05-06			75.2								78.9							
Grahamsville	2020-05-06						<1												
Grahamsville	2020-05-06		<3.0					<0.20				<1.0			38				
Grahamsville	2020-06-03						<1												
Grahamsville*	2020-06-03			111								144							
Grahamsville	2020-06-03		<3.0					<0.20				<1.1			27				
Hanah Country Inn and Golf Resort	2020-01-22	0.003				11.7				7.23		<1.1		3.7	124				
Hanah Country Inn and Golf Resort	2020-02-19	0.003				11.6				7.17		<1.0		3.9	199				
Hanah Country Inn and Golf Resort	2020-03-11	0				8.1				6.98		2.0		5.3	302				
Hobart	2020-01-08	0.82	<3.0			8.9	<1	<0.20		7.12	<0.1	<1.0		11.4	11	0.20		650	
Hobart	2020-01-29	0.099	<3.0					<0.20			<0.1	<1.1			14	0.35		570	
Hobart	2020-02-05	0.109	<3.0			8.6	<1	<0.20		6.54	<0.1	<1.0		11.1	14	0.65		510	
Hobart	2020-03-04	0.071	<3.0			8.0	<1	<0.20		6.39	<0.1	<1.0		11.2	10	0.20		500	

Delaware System

Plant	Sample Date	Flow	BOD5	CBOD5	CL	DO	FColi	NH3	NO3	pH	SETSLDS	SUSPSLDS	TCR	Temperature	TP	Turbidity	MBAS	TDS	TKN
Margaretville*	2020-01-07			84.4								162							
Margaretville	2020-01-07			<3.0				<0.20				<1.0			50				
Margaretville	2020-01-08						<1												
Margaretville*	2020-01-21			130								213							
Margaretville	2020-01-21			<3.0				<0.20				<1.1			45				
Margaretville	2020-01-22						<1												
Margaretville*	2020-02-04			105								365							
Margaretville	2020-02-04			<3.0				<0.20				<1.0			52				
Margaretville	2020-02-05						<1												
Margaretville*	2020-02-18			144								459							
Margaretville	2020-02-18			<3.0				<0.20				<1.1			42				
Margaretville	2020-02-19						<1												
Margaretville*	2020-03-03			89.0								136							
Margaretville	2020-03-03			<3.0				<0.20				<1.0			46				
Margaretville	2020-03-04						<1									0.35			
Margaretville*	2020-03-17			99.5								130				0.15			
Margaretville	2020-03-17			<3.0				<0.20				<1.0			60	0.15			
Margaretville	2020-03-18						<1									0.20			
Margaretville*	2020-04-07			83.8								118				<0.1			
Margaretville	2020-04-07			<3.0				<0.20				<1.0			48	0.10			
Margaretville	2020-04-08						<1									0.40			
Margaretville*	2020-04-21			103								145				<0.1			
Margaretville	2020-04-21			<3.0				<0.20				<1.0			65	0.40			
Margaretville	2020-04-22						<1									0.10			
Margaretville*	2020-05-05			79.2								115				0.20			
Margaretville	2020-05-05			<3.0				<0.20				<1.0			66	0.55			1.1
Margaretville	2020-05-06						<1									1.3			1.1
Margaretville*	2020-05-19			129								193				1.1			
Margaretville	2020-05-19			<3.0				<0.20				<1.1			72	0.40			1.5
Margaretville	2020-05-20						<1									0.45			0.85
Margaretville*	2020-06-02			160								249				0.80			0.742
Margaretville	2020-06-02			<3.0				<0.20				<1.1			93	0.55			0.76
Margaretville	2020-06-03						<1									0.35			
Margaretville*	2020-06-16			268								280				0.20			
Margaretville	2020-06-16			<3.0				<0.20				<1.0			100	0.80			
Margaretville	2020-06-17						E2									0.90			
Mountainside Farms	2020-01-08	0.037	<3.0		290	8.2			7.07	7.72		1.0		19.7	38	0.40	0.12		
Mountainside Farms	2020-01-29	0.05	<3.0		309				3.07			<1.0			16	0.15	<0.1		
Mountainside Farms	2020-02-05	0.043	<3.0		337	8.2			8.04	7.63		<1.0		19.4	16	0.55	<0.1		
Mountainside Farms	2020-03-04	0.045	<3.0		320	8.7			4.53	7.72		<1.0		17.2	15	<0.1	<0.10		
Stamford	2020-01-08	0.458		<3.0		11.1	<1	<0.20		7.51	<0.1	<1.0	<0.04	8.4	7	0.25			<1.0
Stamford	2020-01-29	0.41		<3.0				<0.20			<0.1	<1.0	<0.04		7	0.15			0.46
Stamford	2020-02-05	0.352		3.8		11.1	<1	<0.20		6.60	<0.1	<1.0	<0.04	8.6	10	0.40			0.56
Stamford	2020-03-04	0.642		<3.0		11.4	E1	<0.20		6.81	<0.1	<1.0	<0.04	7.9	6	<0.1			0.45
Stamford	2020-03-09									7.77				6.5		0.10			

Delaware System

Plant	Sample Date	Flow	BOD5	CBOD5	CL	DO	FColi	NH3	NO3	pH	SETSLDS	SUSPSLDS	TCR	Temperature	TP	Turbidity	MBAS	TDS	TKN
Walton	2020-01-22	1.427		3.4		9.9	E1	<0.20		7.44	<0.1	<1.0	<0.04	14.0	7	0.10			0.52
Walton	2020-01-29	1.21		<3.0				12.5			<0.1	<1.0	<0.04		8	0.60			11
Walton	2020-02-19	1.62		<3.0		10.0	<1	0.35		7.17	<0.1	<1.0	<0.04	13.3	15	0.35			1.3
Walton	2020-02-24	1.19						7.93					<0.04						
Walton	2020-03-11	1.45		<3.0		9.7	<1	<0.20		7.16	<0.1	<1.0	<0.04	14.4	6	0.10			0.79
Robert W. Harold Campus	2020-01-22	0.003		<3.0		5.6	<1	0.60		7.24	<0.1	<1.0		24.1	82	0.50		1300	
Robert W. Harold Campus	2020-02-19	0.001		<3.0		8.0	<1	0.33		7.04	<0.1	<1.1		13.0	61	0.55		1800	
Robert W. Harold Campus	2020-03-11	0.004		<3.0		8.1	<1	<0.20		6.92	<0.1	<1.0		16.1	39	0.10		1700	

East of Hudson System

Plant	Sample Date	Flow	BOD5	CBOD5	CL	DO	FColi	NH3	NO3	pH	SETSLDS	SUSPSLDS	TCR	Temperature	TP	Turbidity	MBAS	TDS	TKN
CARMEL STP	2020-01-02	0.85		<3.0		11.1	48	<0.30		6.84	<0.1	<1.0		10.6	14				
CARMEL STP	2020-01-30	0.85		<3.0		11.6	33	<0.30		7.04	<0.1	<1.0		9.7	40				
CARMEL STP	2020-02-05	0.864		<3.0		11.1	E67	<0.30		6.73	<0.1	<1.0		10.0	42				
CARMEL STP	2020-02-10									6.94				10.3		0.25			
CARMEL STP	2020-02-20	0.839		<3.0		11.5	E180	0.45		6.92	0.1	<1.0		9.0	42				
CARMEL STP	2020-03-04	0.9		<3.0		10.7	45	0.85		6.76	0.1	<1.0		10.7	47				
CARMEL STP	2020-03-11	0.752		<3.0		11.1	E17	<0.30		6.86	<0.1	<1.0		11.3	53				
Kent Manor Sewer Corporation	2020-01-02			<3.0		12.2	<1	<0.30		7.57	<0.1	<1.0	<0.05	8.4	3				
Kent Manor Sewer Corporation	2020-01-30			<3.0		12.6	<1	<0.30		7.54	<0.1	<1.0	<0.05	7.0	4				
Kent Manor Sewer Corporation	2020-02-05			<3.0		12.2	<1	<0.30		7.51	<0.1	<1.0	<0.05	8.1	<3				
Kent Manor Sewer Corporation	2020-02-20			<3.0		12.8	E1	<0.30		7.66	0.1	<1.0	<0.05	6.7	3				
Kent Manor Sewer Corporation	2020-03-04	0.012		<3.0		12.2	<1	<0.30		7.66	0.1	<1.0	<0.05	9.1	5				
Kent Manor Sewer Corporation	2020-03-17	0.01		<3.0		11.9	<1	<0.30		Error	<0.1	<1.0	<0.05	9.3	4				
LEWISBORO ELEMENTARY SCHOOL	2020-02-19	0.001		<3.0		10.5	<1	<0.30		Error	<0.1	1.8		12.7	6				
LEWISBORO ELEMENTARY SCHOOL	2020-02-28									8.48									
MAHOPAC STP EFF	2020-01-08					9.5	<1	<0.30				<1.0			13				
MAHOPAC STP EFF	2020-01-30			<3.0		10.3	E1	<0.30				<1.0			12				
MAHOPAC STP EFF	2020-01-31	0.167		<3.0		10.3	<1	<0.30				<1.0			11				
MAHOPAC STP EFF	2020-02-10									7.17				9.6		0.35			
MAHOPAC STP EFF	2020-02-11			<3.0		9.4	<1	<0.30				<1.0			7				
MAHOPAC STP EFF	2020-02-18			<3.0		10.1	<1	<0.30				<1.0			8				
MAHOPAC STP EFF	2020-03-04	0.193		<3.0		9.7	<1	<0.30				<1.0			22				
MAHOPAC STP EFF	2020-03-11	0.183		<3.0		9.6	<1	<0.30				<1.0			30				
MAHOPAC STP EFF	2020-04-01	0.156		<3.0			<1	<0.30				<2.0			35				
MAHOPAC STP EFF	2020-05-12	0.182		<2.0			<1	<0.30				<1.0			24				
MAHOPAC STP EFF	2020-06-09	0.198		<2.0			<1	0.45				<1.0			55				
MICHELLE ESTATES	2020-02-06			<3.0		10.4	<1	8.04		7.70	0.2	<1.0		11.1	40				
THE FAIRWAYS (HILL&DALE)	2020-01-02	0.046		<3.0		11.3	<1	<0.30		7.71	<0.1	<1.0		10.4	414				
THE FAIRWAYS (HILL&DALE)	2020-01-30			<3.0		11.7	<1	<0.30		7.87	<0.1	<1.0		9.6	48				
THE FAIRWAYS (HILL&DALE)	2020-02-05	0.04		<3.0		11.2	E1	<0.30		7.50	0.1	2.9		10.2	43				
THE FAIRWAYS (HILL&DALE)	2020-02-20	0.042		<3.0		11.7	<1	<0.30		7.79	0.1	<1.0		9.0	125				
THE FAIRWAYS (HILL&DALE)	2020-03-04	0.03		<3.0		11.1	<1	<0.30		7.63	0.1	<1.0		10.3	262				
THE FAIRWAYS (HILL&DALE)	2020-03-17	0.043		<3.0		11.1	<1	<0.30		Error	<0.1	<1.0		10.9	510				
THE MEADOWS AT CROSS RIVER	2020-02-06	0.025		<3.0		10.3	<1	<0.30		7.86	0.2	<1.0		13.6	11				
WACCABUC COUNTRY CLUB	2020-02-19	0.002		<3.0		10.2	<1	<0.30		Error	<0.1	<1.0		14.4	7				
WACCABUC COUNTRY CLUB	2020-02-24									8.44									

Croton Falls basin includes: Carmel STP, Kent Manor, Mahopac STP Eff, and The Fairways (Hill&Dale); and was the only EOH pump station in operation during this period. Cross River pump station was not in operation.

Table 4. Data Qualifiers

Plant	Analyte	Sample Date	Sample ID	Qualifier
Ashland WTP	Solids, Settleable	2020-03-05	K-2000853-03	Result obtained from approximately 970 mL, not the required 1 L.
Hunter Highlands	Ammonia (as NH3)	2020-01-15	K-2000167-01A	Data reanalyzed. Dilution is not needed. Original result is acceptable.
Hunter Highlands	Ammonia (as NH3)	2020-01-15	K-2000037-01A	Analytical procedure error. Sample needle having mechanical issue.
Hunter Highlands	Ammonia (as NH3)	2020-01-15	K-2000037-01C	Data reanalyzed due to result above calibration range. Analyzed straight sample because manual dilution factor was selected.
Hunter Highlands	Ammonia (as NH3)	2020-01-15	K-2000037-01	Data reanalyzed due to result above calibration range.
Hunter Highlands	Ammonia (as NH3)	2020-01-15	K-2000037-01B	Analytical procedure error. Sample needle having mechanical issue.
Hunter Highlands	Ammonia (as NH3)	2020-02-19	K-2000674-01	Data reanalyzed due to result above calibration range.
Hunter Highlands	Ammonia (as NH3)	2020-02-19	K-2000676-01	Data reanalyzed due to result above calibration range.
Hunter Highlands	Ammonia (as NH3)	2020-02-19	K-2000676-01A	QC failed.
Hunter Highlands	Ammonia (as NH3)	2020-03-19	K-2001091-01	Data reanalyzed due to result above calibration range.
Hunter Highlands	Ammonia (as NH3)	2020-03-19	K-2001092-01	Data reanalyzed due to result above calibration range.
Prattsville WTP	Solids, Settleable	2020-01-09	K-2000113-02	Some of the test's volume was taken from the TSS bottle.
Prattsville WTP	Solids, Settleable	2020-01-09	K-2000113-02	No duplicate associated with this sample.
Prattsville WTP	Solids, Settleable	2020-03-05	K-2000853-02	Result obtained from approximately 970 mL, not the required 1 L.
Windham WTP	Solids, Settleable	2020-01-09	K-2000113-01	Some of the test's volume was taken from the TSS bottle.
Windham WTP	Solids, Settleable	2020-01-09	K-2000113-01	No duplicate associated with this sample.
CARMEL STP	Ammonia (as NH3)	2020-01-02	E-1905678-04	QC failed. QCS failed, run sent to re-test.
CARMEL STP	Temperature	2020-01-02	E-1905678-04	The duplicate analysis was not within the control limits.
CARMEL STP	Solids, Settleable	2020-01-30	E-2000438-04	No duplicate associated with this sample. No duplicate was collected for any of the three wastewater sites.
CARMEL STP	Temperature	2020-02-05	E-2000460-01	The duplicate analysis was not within the control limits.
CARMEL STP	pH	2020-02-20	E-2000724-04	calibrations temperature adjusted targetss on Buffers not set correctly. pH7 and pH 10 were 0.01 units different
CARMEL STP	Dissolved Oxygen	2020-02-20	E-2000724-04	The duplicate analysis was not within the control limits.
CARMEL STP	Temperature	2020-02-20	E-2000724-04	The duplicate analysis was not within the control limits.
Kent Manor Sewer Corporation	Ammonia (as NH3)	2020-01-02	E-1905678-01	QC failed. QCS failed, run sent to re-test.
Kent Manor Sewer Corporation	Solids, Settleable	2020-01-30	E-2000438-01	No duplicate associated with this sample. No duplicate was collected for any of the three wastewater sites.
Kent Manor Sewer Corporation	Temperature	2020-01-30	E-2000438-01	The duplicate analysis was not within the control limits.
Kent Manor Sewer Corporation	pH	2020-02-20	E-2000724-05	calibrations temperature adjusted targetss on Buffers not set correctly. pH7 and pH 10 were 0.01 units different
Kent Manor Sewer Corporation	pH	2020-03-17	E-2001043-01	Data recording error. pH LCS not recorded in field.
LEWISBORO ELEMENTARY SCHOOL	Temperature	2020-02-19	E-2000710-03	The duplicate analysis was not within the control limits.
LEWISBORO ELEMENTARY SCHOOL	pH	2020-02-19	E-2000710-03	QC not analyzed. Field LCS not recorded. Data rejected. sample rescheduled.
MAHOPAC STP EFF	CBOD	2020-01-08	E-2000024-06	No duplicate associated with this sample.
MAHOPAC STP EFF	Ammonia (as NH3)	2020-01-08	E-2000024-06	QC failed. QCS failed, run sent to re-test.
MAHOPAC STP EFF	Nitrate/Nitrite (as N)	2020-01-08	E-2000024-06	Data reanalyzed due to result above calibration range.
MAHOPAC STP EFF	Phosphorus, Total (as P)	2020-01-30	E-2000438-06	Grab samples were collected in place of composite samples due to equipment failure.
MAHOPAC STP EFF	Ammonia (as NH3)	2020-01-30	E-2000438-06	Grab samples were collected in place of composite samples due to equipment failure.
MAHOPAC STP EFF	CBOD	2020-01-30	E-2000438-06	Grab samples were collected in place of composite samples due to equipment failure.
MAHOPAC STP EFF	Solids, Total Suspended	2020-01-30	E-2000438-06	Grab samples were collected in place of composite samples due to equipment failure.
MAHOPAC STP EFF	Dissolved Oxygen	2020-01-31	E-2000447-02	No duplicate associated with this sample.
MAHOPAC STP EFF	Solids, Total Suspended	2020-01-31	E-2000447-01	The end-of-run LOQ was not within 50-150%.

MICHELLE ESTATES	Ammonia (as NH3)	2020-02-06	E-2000461-01	Data reanalyzed due to result above calibration range.															
MICHELLE ESTATES	Ammonia (as NH3)	2020-02-06	E-2000461-01A	The spike analysis was not within the control limits.															
MICHELLE ESTATES	Ammonia (as NH3)	2020-02-06	E-2000461-01A	The duplicate analysis was not within the control limits.															
MICHELLE ESTATES	Ammonia (as NH3)	2020-02-06	E-2000461-01	This sample was not preserved within 15 minutes of sample collection.															
THE FAIRWAYS (HILL&DALE)	Phosphorus, Total (as P)	2020-01-02	E-1905678-02	Data reanalyzed due to result above calibration range.															
THE FAIRWAYS (HILL&DALE)	Ammonia (as NH3)	2020-01-02	E-1905678-02	QC failed. QCS failed, run sent to re-test.															
THE FAIRWAYS (HILL&DALE)	Ammonia (as NH3)	2020-01-02	E-1905678-02B	The duplicate analysis was not within the control limits.															
THE FAIRWAYS (HILL&DALE)	Solids, Settleable	2020-01-30	E-2000438-02	No duplicate associated with this sample. No duplicate was collected for any of the three wastewater sites.															
THE FAIRWAYS (HILL&DALE)	pH	2020-02-20	E-2000724-02	calibrations temperature adjusted targetss on Buffers not set correctly. pH7 and pH 10 were 0.01 units different															
THE FAIRWAYS (HILL&DALE)	Phosphorus, Total (as P)	2020-03-17	E-2001043-02	Data reanalyzed due to result above calibration range.															
THE FAIRWAYS (HILL&DALE)	pH	2020-03-17	E-2001043-02	Data recording error. pH LCS not recorded in field.															
THE MEADOWS AT CROSS RIVER	Temperature	2020-02-06	E-2000461-02	The duplicate analysis was not within the control limits.															
WACCABUC COUNTRY CLUB	pH	2020-02-19	E-2000710-01	QC not analyzed. Field LCS not recorded. Data rejected. sample rescheduled.															
WACCABUC COUNTRY CLUB	pH	2020-02-24	E-2000762-01	Dut to temperature fluctuation the set point of pH 10 calibration buffer was incorrectly set at 10.07 rather than 10.08															