

***NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER SUPPLY***

**Report on sample monitoring of
NYC-owned and non-City-owned WWTPs
discharging in the CAT/DEL watershed**

Second Quarter 2013

July 31, 2013

*Prepared in accordance with Section 6.2 of the July 2007 United States
Environmental Protection Agency Filtration Avoidance Determination*



Prepared by: Bureau of Water Supply, Division of Watershed Water Quality Science and Research

Introduction

The attached computer output was prepared in accordance with DEP's 2006 Long-term Watershed Protection Program and EPA's July 2007 Filtration Avoidance Determination. It reports the results of DEP's sampling of New York City-owned wastewater treatment plants and surface-discharging non-City-owned wastewater treatment plants (WWTPs) discharging in the CAT/DEL watershed.

The computer output is divided into three tables. The first table, a subset of the second table, lists all of the DEP samples that contravened SPDES limits. The second table compares 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 the quarter. Note that DEP's samples are surveillance, not regulatory samples, and single samples that exceed limits may not constitute true SPDES violations.

The third table of this report is simply an output of the raw data. Parameters not detected in the effluent are indicated with a minus (-) sign, meaning "less than", next to the detection limit. For example, -0.10 in the NH₃ column means that the total ammonia concentration in the effluent was less than the detection limit of 0.1 mg/L. Errors occurring in the field or in the lab are noted by -110 or -105 respectively. Fcoli code E means estimated. Fcoli code TNTC means too numerous to count.

Mountainside Farms is currently under a DEC consent order and a full plant modification has been approved. Construction is ongoing and it is scheduled to be functionally open on January 2014.

This report tabulates data only. Information on suspected treatment problems and/or courses of action in response to poor treatment at Catskill or Delaware District WWTPs is described in DEP's 2006 Long-term Watershed Protection Plan.

Table 1. DEP samples that contravened SPDES limits.

Catskill District:

Facility	Date	Parameter	Measurement	SPDES Limit
Camp Timberlake	26JUN13	Temperature	22.2	21.1 °C (70°F)
Mountain View Estates	10APR13	pH	4.9	6.5 - 8.5
Mountain View Estates	10APR13	Ammonia	2.64	1.4 mg/l
Windham	04APR13	Tot.Chlor.Res.	0.20	0.1 mg/l
Boiceville	03APR13	Ammonia	1.42	1.4 mg/l
Hunter Village	01MAY13	Tot.Chlor.Res.	0.48	0.24 mg/l

Delaware District:

Facility	Date	Parameter	Measurement	SPDES Limit
Camp L'man A'chai	12JUN13	pH	6.19	6.5 - 8.5
Delhi	09MAY13	Sett.Solids	0.2	0.1 ml/l

Delaware District (cont.):

<u>Facility</u>	<u>Date</u>	<u>Parameter</u>	<u>Measurement</u>	<u>SPDES Limit</u>
Fleischmanns	05JUN13	Dissolved Oxygen	6.9	7 mg/l, minimum
Fleischmanns	12JUN13	Flow	0.44	0.16 MGD, 30-day A.M.
Hobart	05JUN13	Phosphorus	0.623	0.5 mg/l
Mountainside	03APR13	pH	6.08	6.5 - 8.5
Mountainside	03APR13	Susp.Solids	96	30 mg/l, daily max.
Mountainside	03APR13	Chloride	519	500 mg/l
Mountainside	08MAY13	Susp.Solids	48	30 mg/l, daily max.
Mountainside	05JUN13	Susp.Solids	73	30 mg/l, daily max.
Mountainside	12JUN13	Susp.Solids	48.3	30 mg/l, daily max.
Roxbury Run	12JUN13	Flow	0.044	0.035 MGD, 30-day A.M.
Stamford	12JUN13	Flow	0.716	0.7 MGD, 30-day A.M.
Walton	11APR13	CBOD	19.9	8.0 mg/l
Walton	22MAY13	CBOD	54.8	8.0 mg/l
WestDel BOCES	11APR13	Ammonia	28.6	1.4 mg/l
WestDel BOCES	17APR13	Ammonia	27.8	1.4 mg/l
WestDel BOCES	26JUN13	Temperature	22.4	21.1 °C (70°F)

Table 2. Comparison of effluent concentrations in DEP's samples with the limits of SPDES permits.

Catskill District:

Ashland WTP

date	Parameter	SPDES Violation	SPDES Limit
17APR13		no violations	
24APR13		no violations	
22MAY13		no violations	
18JUN13		no violations	

Boiceville WWTP

date	Parameter	SPDES Violation	SPDES Limit
03APR13	Ammonia	1.42	1.4 mg/l
09MAY13		no violations	
15MAY13		no violations	
19JUN13		no violations	
26JUN13		no violations	

Camp Timberlake - seasonal facility

date	Parameter	SPDES Violation	SPDES Limit
19JUN13		no violations	
26JUN13	Temp	22.2	21.1 °C, daily max.

Elka Park (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
10APR13		no violations	
17APR13		no violations	
07MAY13		no violations	

Elka Park (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
04JUN13		no violations	

Grand Gorge (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
02APR13		no violations	
03APR13		no violations	
16APR13		no violations	
17APR13		no violations	
07MAY13		no violations	
08MAY13		no violations	
21MAY13		no violations	
22MAY13		no violations	

Grand Gorge (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
04JUN13		no violations	
05JUN13		no violations	
18JUN13		no violations	
19JUN13		no violations	

Hunter Highlands (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
02APR13		no violations	
10APR13		no violations	

Hunter Highlands (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
04JUN13		no violations	
12JUN13		no violations	

Hunter Village

date	Parameter	SPDES Violation	SPDES Limit
02APR13		no violations	
17APR13		no violations	
22APR13		no violations	
01MAY13	Tot. Chlor. Res.	0.48	0.24 mg/l
04JUN13		no violations	
12JUN13		no violations	

Mountain View Estates, Inc.

date	Parameter	SPDES Violation	SPDES Limit
10APR13	pH	4.9	6.5 - 9.5
10APR13	Ammonia	2.64	1.4 mg/l

Olive Woods

date	Parameter	SPDES Violation	SPDES Limit
07MAY13		no violations	
12JUN13		no violations	

Oorah Golden Acres - seasonal facility

date	Parameter	SPDES Violation	SPDES Limit
26JUN13		no violations	

Pine Hill (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
02APR13		no violations	
03APR13		no violations	
16APR13		no violations	
17APR13		no violations	
07MAY13		no violations	
08MAY13		no violations	
21MAY13		no violations	
22MAY13		no violations	

Pine Hill (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
04JUN13		no violations	
05JUN13		no violations	
18JUN13		no violations	
19JUN13		no violations	

Prattsville WTP

date	Parameter	SPDES Violation	SPDES Limit
10APR13		no violations	
17APR13		no violations	
22APR13		no violations	
24APR13		no violations	
01MAY13		no violations	
15MAY13		no violations	
26JUN13		no violations	

Tannersville (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
02APR13		no violations	
03APR13		no violations	
16APR13		no violations	
17APR13		no violations	
07MAY13		no violations	
08MAY13		no violations	
21MAY13		no violations	
22MAY13		no violations	

Tannersville (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
04JUN13		no violations	
05JUN13		no violations	
18JUN13		no violations	
19JUN13		no violations	

Windham (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
10APR13	Tot. Chlor. Res.	0.2	0.1 mg/l
17APR13		no violations	
01MAY13		no violations	
15MAY13		no violations	
28MAY13		no violations	

Windham (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
18JUN13		no violations	
26JUN13		no violations	

Delaware District:

Andes (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
11APR13		no violations	
17APR13		no violations	
15MAY13		no violations	
22MAY13		no violations	

Andes (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
17JUN13		no violations	
19JUN13		no violations	
26JUN13		no violations	

Camp L'man A'chai - seasonal facility

date	Parameter	SPDES Violation	SPDES Limit
12JUN13	pH	6.19	6.5 - 8.5

Delhi WWTP

date	Parameter	SPDES Violation	SPDES Limit
11APR13		no violations	
17APR13		no violations	
09MAY13	Settleable Slds	0.2	0.1 ml/l
22MAY13		no violations	
19JUN13		no violations	
26JUN13		no violations	

Fleischmanns WWTP

date	Parameter	SPDES Violation	SPDES Limit
03APR13		no violations	
10APR13		no violations	
01MAY13		no violations	
08MAY13		no violations	
05JUN13	Dissolved Oxygen	6.9	7 mg/l, min.
12JUN13	Flow	0.44	0.16 MGD, 30-day A.M.
17JUN13		no violations	

Grahamsville WWTP

date	Parameter	SPDES Violation	SPDES Limit
03APR13		no violations	
01MAY13		no violations	
05JUN13		no violations	

Hobart

date	Parameter	SPDES Violation	SPDES Limit
03APR13		no violations	
10APR13		no violations	
01MAY13		no violations	
08MAY13		no violations	
05JUN13	Total Phosphorus	0.623	0.5 mg/l, 30-day A.M.
12JUN13		no violations	

Margaretville

date	Parameter	SPDES Violation	SPDES Limit
02APR13		no violations	
03APR13		no violations	
16APR13		no violations	
07MAY13		no violations	
08MAY13		no violations	
21MAY13		no violations	
22MAY13		no violations	
04JUN13		no violations	
05JUN13		no violations	
18JUN13		no violations	
19JUN13		no violations	

Margaretville--% removals

date	Parameter	SPDES Violation	SPDES Limit
02APR13		% removals okay	
16APR13		% removals okay	
07MAY13		% removals okay	
21MAY13		% removals okay	
04JUN13		% removals okay	
18JUN13		% removals okay	

Mountainside Farms - Delaware County Dairies

date	Parameter	SPDES Violation	SPDES Limit
03APR13	pH	6.08	6.5 - 8.5
03APR13	Suspended Solids	96	30 mg/l, daily max.
03APR13	Chloride	519	500 mg/l
10APR13		no violations	
01MAY13		no violations	
08MAY13	Suspended Solids	48	30 mg/l, daily max.
05JUN13	Suspended Solids	73	30 mg/l, daily max.
12JUN13	Suspended Solids	48.3	30 mg/l, daily max.

Roxbury Run (winter limits)

date	Parameter	SPDES Violation	SPDES Limit
03APR13		no violations	
10APR13		no violations	
01MAY13		no violations	
08MAY13		no violations	

Roxbury Run (summer limits)

date	Parameter	SPDES Violation	SPDES Limit
05JUN13		no violations	
12JUN13	Flow	0.044	0.035 MGD, 30-day A.M.

Stamford WWTP

date	Parameter	SPDES Violation	SPDES Limit
03APR13		no violations	
10APR13		no violations	
01MAY13		no violations	
08MAY13		no violations	
05JUN13		no violations	
12JUN13	Flow	0.716	0.7 MGD, 30-day A.M.
19JUN13		no violations	

Walton WWTP

date	Parameter	SPDES Violation	SPDES Limit
11APR13	CBOD5	19.9	8.0 mg/l
17APR13		no violations	
09MAY13		no violations	

Walton WWTP - continued

date	Parameter	SPDES Violation	SPDES Limit
22MAY13	CBOD5	54.8	8.0 mg/l
19JUN13		no violations	
26JUN13		no violations	

Delaware County BOCES

date	Parameter	SPDES Violation	SPDES Limit
11APR13	Ammonia	28.6	1.4 mg/l
17APR13	Ammonia	27.8	1.4 mg/l
09MAY13		no violations	
22MAY13		no violations	
19JUN13		no violations	
26JUN13	Temperature	22.4	21.1 °C (70°F)

Catskill District

Table 3. Data for the quarter.

Obs	PLANT	COLLECT	FLOW	TEMP	PH	DO	TURB	BOD5	CBOD5	SUSPSLDS
1	ASHLAND WTP	17APR2013	.	8.3	7.20	10.6	-0.10	-3	.	-1
2	ASHLAND WTP	24APR2013	.	7.9	7.34	10.4	-0.10	-3	.	-2
3	ASHLAND WTP	22MAY2013	.	12.6	7.32	9.1	0.50	-3	.	-2
4	ASHLAND WTP	18JUN2013	.	13.3	7.67	9.9	-0.10	-3	.	-1
5	BOICEVILLE WTP	03APR2013	.	10.8	7.33	11.2	0.20	.	-3	-1
6	BOICEVILLE WTP	09MAY2013	.	17.1	7.72	10.0	0.40	.	-3	-2
7	BOICEVILLE WTP	15MAY2013	.	15.4	8.21	10.0	0.85	.	-3	-1
8	BOICEVILLE WTP	15MAY2013	.	.	.	.	.	.	.	.
9	BOICEVILLE WTP	19JUN2013	.	19.8	7.91	9.3	0.10	.	-3	-1
10	BOICEVILLE WTP	26JUN2013	.	20.6	7.86	9.2	0.15	.	-3	-1
11	BOICEVILLE WTP	26JUN2013	.	.	.	.	.	.	.	.
12	CAMP TIMBERLAKE	19JUN2013	.	19.9	7.36	8.0	-0.10	.	-3	-1
13	CAMP TIMBERLAKE	26JUN2013	.	22.2	7.31	8.1	-0.10	.	-3	-1
14	ELKA PARK	10APR2013	.	5.2	7.32	11.7	0.10	.	-3	-1
15	ELKA PARK	17APR2013	.	7.5	7.33	11.6	0.10	.	-3	-1
16	ELKA PARK	07MAY2013	.	15.6	7.86	9.4	0.10	.	-3	-1

Obs	SETSLDS	TDS	TP	NH3	NO3	TKN	TCREFF	CL	FCOLI	FCCODE	MBAS
1	-0.1	.	0.011	0.75	.	.	-0.04	.	-1	.	.
2	-0.1	.	0.016	1.78	.	.	0.76	.	-1	.	.
3	-0.1	.	0.026	0.46	.	.	-0.04	.	-1	.	.
4	-0.1	.	0.034	-0.20	.	.	-0.04	.	-1	.	.
5	-0.1	.	0.199	1.42	.	.	-0.04	.	-1	.	.
6	-0.1	.	0.187	-0.20	.	.	0.04	.	-1	.	.
7	-0.1	.	.	-0.20	.	.	-0.04	.	-1	.	.
8	.	.	0.200	.	.	.	.	.	.	.	.
9	-0.1	.	0.173	0.20	.	.	-0.04	.	-1	.	.
10	-0.1	.	.	0.25	.	.	-0.04	.	-1	.	.
11	.	.	0.327	.	.	.	.	.	.	.	.
12	-0.1	.	0.174	-0.20	.	.	-0.04	.	-1	.	.
13	-0.1	.	0.147	-0.20	.	.	0.05	.	-1	.	.
14	-0.1	.	0.092	-0.20	.	.	-0.04	.	-1	.	.
15	-0.1	.	0.104	-0.20	.	.	-0.04	.	-1	.	.
16	-0.1	.	0.130	-0.20	.	.	-0.04	.	-1	.	.

Catskill District

Obs	PLANT	COLLECT	FLOW	TEMP	PH	DO	TURB	BOD5	CBOD5	SUSPSLDS
17	ELKA PARK	04JUN2013	.	14.9	7.63	9.5	-0.10	.	-3	-1.0
18	ELKA PARK	04JUN2013	.	.	.	.	.	.	.	.
19	GRAND GORGE	02APR2013	.	.	.	.	.	.	-3	-1.0
20	GRAND GORGE	03APR2013	.	.	.	.	.	.	.	.
21	GRAND GORGE	16APR2013	.	.	.	.	.	.	-3	-1.0
22	GRAND GORGE	17APR2013	.	.	.	.	.	.	.	.
23	GRAND GORGE	07MAY2013	.	.	.	.	.	.	-3	-1.0
24	GRAND GORGE	08MAY2013	.	.	.	.	.	.	.	.
25	GRAND GORGE	21MAY2013	.	.	.	.	.	.	-3	-1.0
26	GRAND GORGE	22MAY2013	.	.	.	.	.	.	.	.
27	GRAND GORGE	04JUN2013	.	.	.	.	.	.	-3	-1.0
28	GRAND GORGE	04JUN2013	.	.	.	.	.	.	.	.
29	GRAND GORGE	05JUN2013	.	.	.	.	.	.	.	.
30	GRAND GORGE	18JUN2013	.	.	.	.	.	.	-3	-1.0
31	GRAND GORGE	19JUN2013	.	.	.	.	.	.	.	.
32	HUNTER HIGHLANDS	02APR2013	.	6.1	6.88	11.4	0.10	.	-3	-1.0

Obs	SETSLDS	TDS	TP	NH3	NO3	TKN	TCREFF	CL	FCOLI	FCCODE	MBAS
17	-0.1	.	.	-0.20	.	.	-0.04	.	-1	.	.
18	.	.	0.121	.	.	.	.	.	.	.	.
19	.	.	0.024	-0.20	.	.	.	.	.	.	.
20	-1	.	.
21	.	.	0.009	-0.20	.	.	.	.	.	.	.
22	-1	.	.
23	.	.	0.006	-0.20	.	.	.	.	.	.	.
24	-1	.	.
25	.	.	0.039	-0.20	.	.	.	.	.	.	.
26	2	.	.
27	.	.	.	-0.20	.	.	.	.	.	.	.
28	.	.	0.053	.	.	.	.	.	.	.	.
29	-1	.	.
30	.	.	0.049	-0.20	.	.	.	.	.	.	.
31	-1	.	.
32	-0.1	.	0.007	-0.20	.	.	-0.04	.	-1	.	.

Catskill District

Obs	PLANT	COLLECT	FLOW	TEMP	PH	DO	TURB	BOD5	CBOD5	SUSPSLDS
33	HUNTER HIGHLANDS	10APR2013	.	9.7	7.25	10.8	0.25	.	-3	-1.0
34	HUNTER HIGHLANDS	04JUN2013	.	21.6	8.05	8.6	0.80	.	-3	-1.0
35	HUNTER HIGHLANDS	04JUN2013	.	.	.	.	.	.	.	.
36	HUNTER HIGHLANDS	12JUN2013	.	16.6	7.31	9.3	0.35	.	-3	-1.0
37	HUNTER HIGHLANDS	12JUN2013	.	16.1	6.76	.	0.20	.	.	.
38	HUNTER WTP	02APR2013	.	6.4	6.54	11.0	0.15	-3	.	-1.0
39	HUNTER WTP	17APR2013	.	9.1	6.78	11.7	0.10	-3	.	-1.0
40	HUNTER WTP	22APR2013	.	8.3	6.57	.	0.15	.	.	.
41	HUNTER WTP	01MAY2013	.	11.6	7.07	10.6	0.40	-3	.	2.0
42	HUNTER WTP	04JUN2013	.	16.2	6.61	9.3	-0.10	-3	.	-1.0
43	HUNTER WTP	04JUN2013	.	.	.	.	.	.	.	.
44	HUNTER WTP	12JUN2013	.	16.3	6.87	9.2	0.15	-3	.	-1.0
45	MOUNTAIN VIEW	10APR2013	.	12.3	4.90	9.6	-0.10	.	-3	-1.0
46	OLIVE WOODS	07MAY2013	.	16.5	8.09	9.8	-0.10	.	-3	-2.0
47	OLIVE WOODS	12JUN2013	.	16.1	8.12	9.7	-0.10	.	-3	-1.0
48	OORAH GOLDEN ACRES	26JUN2013	.	17.3	8.37	9.8	0.15	.	-3	-1.0

Obs	SETSLDS	TDS	TP	NH3	NO3	TKN	TCREFF	CL	FCOLI	FCCODE	MBAS
33	-0.1	.	0.006	-0.20	.	.	-0.04	.	-1	.	.
34	-0.1	.	.	-0.20	.	.	-0.04	.	-1	.	.
35	.	.	0.008	.	.	.	.	.	.	.	.
36	-0.1	.	0.012	-0.20	.	.	-0.04	.	-1	.	.
37	.	.	.	.	.	.	.	.	.	.	.
38	-0.1	.	0.012	-0.20	.	.	0.05	.	-1	.	.
39	-0.1	.	0.007	-0.20	.	.	-0.04	.	-1	.	.
40	.	.	.	.	.	.	.	.	.	.	.
41	-0.1	.	0.042	0.57	.	.	0.48	.	-1	.	.
42	-0.1	.	.	-0.20	.	.	-0.04	.	-1	.	.
43	.	.	0.007	.	.	.	.	.	.	.	.
44	-0.1	.	0.045	-0.20	.	.	0.04	.	-1	.	.
45	-0.1	.	0.012	2.64	.	.	.	.	-1	.	.
46	-0.1	.	0.026	-0.20	.	.	-0.04	.	-1	.	.
47	-0.1	.	0.010	-0.20	.	.	-0.04	.	-1	.	.
48	-0.1	.	.	0.58	.	.	-0.04	.	-1	.	.

Catskill District

Obs	PLANT	COLLECT	FLOW	TEMP	PH	DO	TURB	BOD5	CBOD5	SUSPSLDS
49	OORAH GOLDEN ACRES	26JUN2013	.	.	.	.	.	.	.	.
50	PINE HILL	02APR2013	.	.	.	.	.	-3	.	-1.1
51	PINE HILL	03APR2013	.	.	.	.	.	.	.	.
52	PINE HILL	16APR2013	.	.	.	.	.	-3	.	-1.0
53	PINE HILL	17APR2013	.	.	.	.	.	.	.	.
54	PINE HILL	07MAY2013	.	.	.	.	.	-3	.	-1.0
55	PINE HILL	08MAY2013	.	.	.	.	.	.	.	.
56	PINE HILL	21MAY2013	.	.	.	.	.	-3	.	-1.0
57	PINE HILL	22MAY2013	.	.	.	.	.	.	.	.
58	PINE HILL	04JUN2013	.	.	.	.	.	-3	.	-1.0
59	PINE HILL	04JUN2013	.	.	.	.	.	.	.	.
60	PINE HILL	05JUN2013	.	.	.	.	.	.	.	.
61	PINE HILL	18JUN2013	.	.	.	.	.	-3	.	-1.1
62	PINE HILL	19JUN2013	.	.	.	.	.	.	.	.
63	PRATTSVILLE WTP	10APR2013	.	10.3	7.18	8.8	0.15	.	-3	-1.0
64	PRATTSVILLE WTP	17APR2013	.	10.3	7.30	10.5	0.10	.	-3	-1.0

Obs	SETSLDS	TDS	TP	NH3	NO3	TKN	TCREFF	CL	FCOLI	FCCODE	MBAS
49	.	.	0.376	.	.	.	.	.	.	.	.
50	.	.	0.005	-0.2	.	.	.	.	.	.	.
51	-1	.	.
52	.	.	-0.005	-0.2	.	.	.	.	.	.	.
53	-1	.	.
54	.	.	0.007	-0.2	.	.	.	.	.	.	.
55	-1	.	.
56	.	.	0.007	-0.2	.	.	.	.	.	.	.
57	-1	.	.
58	.	.	.	-0.2	.	.	.	.	.	.	.
59	.	.	0.010	.	.	.	.	.	.	.	.
60	-1	.	.
61	.	.	0.005	-0.2	.	.	.	.	.	.	.
62	-1	.	.
63	-0.1	.	0.054	.	.	.	-0.04	.	-1	.	.
64	-0.1	.	0.045	.	.	1.00	-0.04	.	-1	.	.

Catskill District

Obs	PLANT	COLLECT	FLOW	TEMP	PH	DO	TURB	BOD5	CBOD5	SUSPSLDS
65	PRATTSVILLE WTP	22APR2013	.	10.1	6.78	.	0.20	.	.	.
66	PRATTSVILLE WTP	24APR2013	.	.	.	.	.	.	-3	.
67	PRATTSVILLE WTP	01MAY2013	.	13.1	7.12	8.1	0.10	.	-3	-1
68	PRATTSVILLE WTP	15MAY2013	.	12.8	7.35	8.8	0.10	.	-3	-1
69	PRATTSVILLE WTP	26JUN2013	.	17.9	7.29	6.8	0.10	.	-3	-1
70	TANNERSVILLE	02APR2013	.	.	.	.	.	.	-3	-1
71	TANNERSVILLE	03APR2013	.	.	.	.	.	.	.	.
72	TANNERSVILLE	16APR2013	.	.	.	.	.	.	-3	-1
73	TANNERSVILLE	17APR2013	.	.	.	.	.	.	.	.
74	TANNERSVILLE	07MAY2013	.	.	.	.	.	.	-3	-1
75	TANNERSVILLE	08MAY2013	.	.	.	.	.	.	.	.
76	TANNERSVILLE	21MAY2013	.	.	.	.	.	.	-3	-1
77	TANNERSVILLE	22MAY2013	.	.	.	.	.	.	.	.
78	TANNERSVILLE	04JUN2013	.	.	.	.	.	.	-3	-1
79	TANNERSVILLE	04JUN2013	.	.	.	.	.	.	.	.
80	TANNERSVILLE	05JUN2013	.	.	.	.	.	.	.	.

Obs	SETSLDS	TDS	TP	NH3	NO3	TKN	TCREFF	CL	FCOLI	FCCODE	MBAS
65
66	1.30	-0.04	.	.	.	.
67	-0.1	.	0.079	.	.	0.90	0.05	.	-1	.	.
68	-0.1	.	0.120	.	.	1.00	-0.04	.	-1	.	.
69	-0.1	.	0.073	.	.	0.39	-0.04	.	-1	.	.
70	.	.	0.024	-0.2	.	.	.	.	.	.	.
71	-1	.	.
72	.	.	0.013	-0.2	.	.	.	.	.	.	.
73	-1	.	.
74	.	.	0.044	-0.2	.	.	.	.	.	.	.
75	-1	.	.
76	.	.	0.031	-0.2	.	.	.	.	.	.	.
77	-1	.	.
78	.	.	.	-0.2	.	.	.	.	.	.	.
79	.	.	0.020	.	.	.	.	.	.	.	.
80	-1	.	.

Catskill District

Obs	PLANT	COLLECT	FLOW	TEMP	PH	DO	TURB	BOD5	CBOD5	SUSPSLDS
81	TANNERSVILLE	18JUN2013	.	.	.	.	.	.	-3	-1
82	TANNERSVILLE	19JUN2013	.	.	.	.	.	.	.	.
83	WINDHAM WTP	10APR2013	.	7.8	7.04	11.2	0.40	-3	.	-1
84	WINDHAM WTP	17APR2013	.	8.0	7.13	12.2	0.10	-3	.	-1
85	WINDHAM WTP	01MAY2013	.	10.9	7.00	11.2	0.20	-3	.	-1
86	WINDHAM WTP	15MAY2013	.	10.9	6.85	10.7	0.15	-3	.	-1
87	WINDHAM WTP	28MAY2013	.	11.7	6.69	.	0.10	.	.	.
88	WINDHAM WTP	18JUN2013	.	14.8	7.05	9.8	0.10	.	-3	-1
89	WINDHAM WTP	26JUN2013	.	17.5	7.13	9.1	-0.10	.	-3	-1

Obs	SETSLDS	TDS	TP	NH3	NO3	TKN	TCREFF	CL	FCOLI	FCCODE	MBAS
81	.	.	0.021	-0.2	.	.	.	.	.	.	.
82	.	.	.	.	.	.	.	.	-1	.	.
83	-0.1	.	0.012	.	.	.	0.20	.	-1	.	.
84	-0.1	.	0.006	.	.	.	-0.04	.	-1	.	.
85	-0.1	.	0.007	.	.	.	-0.04	.	-1	.	.
86	-0.1	.	0.008	.	.	.	-0.04	.	-1	.	.
87	.	.	.	.	.	.	.	.	.	.	.
88	-0.1	.	0.008	-0.2	.	0.56	-0.04	.	-1	.	.
89	-0.1	.	0.011	-0.2	.	0.51	0.04	.	-1	.	.

Delaware District

Obs	PLANT	COLLECT	FLOW	TEMP	PH	DO	TURB	BOD5	CBOD5	SUSPSLDS
1	ANDES	11APR2013	0.0280	10.4	7.65	10.7	0.75	-3	.	2.5
2	ANDES	17APR2013	0.0290	10.6	7.63	11.3	0.20	-3	.	-1.0
3	ANDES	15MAY2013	0.0210	13.8	7.74	9.9	0.15	-3	.	-1.0
4	ANDES	22MAY2013	0.0210	16.2	7.81	8.8	0.25	-3	.	-1.0
5	ANDES	22MAY2013	.	.	.	.	.	.	.	.
6	ANDES	17JUN2013	.	16.2	7.84	.	0.10	.	.	.
7	ANDES	19JUN2013	0.0270	16.3	7.95	8.9	0.25	-3	.	-1.0
8	ANDES	26JUN2013	0.0180	18.6	7.97	.	0.25	-3	.	-1.0
9	CAMP L'MAN A'CHAI	12JUN2013	.	14.1	6.19	9.3	6.80	.	.	.
10	DELHI	11APR2013	0.7370	14.4	7.28	8.9	1.10	.	-3	1.6
11	DELHI	17APR2013	0.6360	15.4	7.51	10.3	0.35	.	-3	1.1
12	DELHI	09MAY2013	0.7010	18.1	7.53	9.1	1.00	.	-3	9.3
13	DELHI	22MAY2013	0.6310	20.6	7.34	7.9	0.95	.	-3	2.5
14	DELHI	22MAY2013	.	.	.	.	.	.	.	.
15	DELHI	19JUN2013	0.6100	20.9	7.75	7.9	0.30	.	-3	-1.0
16	DELHI	26JUN2013	0.5570	23.7	7.68	.	0.40	.	-3	1.3

Obs	SETSLDS	TDS	TP	NH3	NO3	TKN	TCREFF	CL	FCOLI	FCCODE	MBAS
1	-0.1	.	0.056	-0.20	.	.	-0.04	.	-1	.	.
2	-0.1	.	0.042	-0.20	.	.	-0.04	.	-1	.	.
3	-0.1	.	0.062	-0.20	.	.	-0.04	.	-1	.	.
4	-0.1	.	0.091	-0.20	.	.	.	.	-1	.	.
5	.	.	.	.	.	.	-0.04	.	.	.	.
6	.	.	.	.	.	.	.	.	.	.	.
7	-0.1	.	0.102	-0.20	.	.	-0.04	.	-1	.	.
8	-0.1	.	0.108	-0.20	.	.	-0.04	.	-1	.	.
9	.	.	.	.	.	.	-0.04	.	-1	.	.
10	-0.1	.	0.019	0.40	.	.	-0.04	.	-1	.	.
11	0.1	.	0.009	0.22	.	.	-0.04	.	-1	.	.
12	0.2	.	0.010	0.90	.	.	-0.04	.	-1	.	.
13	0.1	.	0.012	0.48	.	.	.	.	-1	.	.
14	.	.	.	.	.	.	0.09	.	.	.	.
15	0.1	.	0.011	-0.20	.	.	-0.04	.	1	.	.
16	-0.1	.	0.011	-0.20	.	.	-0.04	.	-1	.	.

Delaware District

Obs	PLANT	COLLECT	FLOW	TEMP	PH	DO	TURB	BOD5	CBOD5	SUSPSLDS
17	FLEISCHMANN	03APR2013	0.0440	6.6	7.14	11.6	0.75	.	-3	-1
18	FLEISCHMANN	10APR2013	0.0336	8.0	7.03	11.5	0.10	.	-3	-1
19	FLEISCHMANN	01MAY2013	0.0300	10.2	7.14	10.3	0.30	.	-3	-1
20	FLEISCHMANN	08MAY2013	0.0260	11.5	.	10.8	0.15	.	-3	-1
21	FLEISCHMANN	05JUN2013	0.0440	20.9	7.32	6.9	0.35	.	-3	-1
22	FLEISCHMANN	05JUN2013	.	.	.	.	.	.	.	.
23	FLEISCHMANN	12JUN2013	0.4400	14.9	7.24	9.7	0.10	.	-3	-1
24	FLEISCHMANN	12JUN2013	.	.	.	.	.	.	.	.
25	FLEISCHMANN	17JUN2013	.	12.6	7.03	.	0.15	.	.	.
26	GRAHAMSVILLE	03APR2013	.	.	.	.	.	.	-3	-1
27	GRAHAMSVILLE	03APR2013	.	.	.	.	.	.	.	.
28	GRAHAMSVILLE	01MAY2013	.	.	.	.	.	.	-3	-1
29	GRAHAMSVILLE	01MAY2013	.	.	.	.	.	.	.	.
30	GRAHAMSVILLE	05JUN2013	.	.	.	.	.	.	-3	-1
31	GRAHAMSVILLE	05JUN2013	.	.	.	.	.	.	.	.
32	GRAHAMSVILLE	05JUN2013	.	.	.	.	.	.	.	.

Obs	SETSLDS	TDS	TP	NH3	NO3	TKN	TCREFF	CL	FCOLI	FCCODE	MBAS
17	-0.1	.	0.012	-0.20	.	.	-0.04	.	-1	.	.
18	-0.1	.	-0.005	-0.20	.	.	-0.04	.	-1	.	.
19	-0.1	.	0.005	-0.20	.	.	-0.04	.	-1	.	.
20	-0.1	.	0.007	-0.20	.	.	-0.04	.	-1	.	.
21	-0.1	.	.	-0.20	.	.	-0.04	.	-1	.	.
22	.	.	0.014	.	.	.	.	.	.	.	.
23	-0.1	.	.	-0.20	.	.	-0.04	.	-1	.	.
24	.	.	-0.005	.	.	.	.	.	.	.	.
25	.	.	.	.	.	.	.	.	.	.	.
26	.	.	0.036	-0.20	.	.	.	.	.	.	.
27	.	.	.	.	.	.	.	.	-1	.	.
28	.	.	0.044	-0.20	.	.	.	.	.	.	.
29	.	.	.	.	.	.	.	.	-1	.	.
30	.	.	.	-0.20	.	.	.	.	.	.	.
31	.	.	0.069	.	.	.	.	.	.	.	.
32	.	.	.	.	.	.	.	.	-1	.	.

Delaware District

Obs	PLANT	COLLECT	FLOW	TEMP	PH	DO	TURB	BOD5	CBOD5	SUSPSLDS
33	GRAHAMSVILLE	20MAY2013	.	14.7	7.41	.	-0.1	.	.	.
34	HOBART	03APR2013	0.069	10.9	6.84	6.0	0.2	.	-3	-1.0
35	HOBART	10APR2013	0.073	12.4	6.85	6.4	0.1	.	-3	-1.0
36	HOBART	01MAY2013	0.056	14.9	6.78	5.5	0.1	.	-3	-1.0
37	HOBART	08MAY2013	0.068	14.7	6.72	5.8	0.7	.	-3	-1.0
38	HOBART	05JUN2013	0.080	16.1	6.86	8.1	0.1	.	-3	-1.0
39	HOBART	05JUN2013	.	.	.	.	.	.	.	.
40	HOBART	12JUN2013	0.100	17.0	7.04	5.8	-0.1	.	-3	-1.0
41	MARGARETVILLE	02APR2013	.	.	.	.	.	.	-3	-1.0
42	MARGARETVILLE	03APR2013	.	.	.	.	.	.	.	.
43	MARGARETVILLE	16APR2013	.	.	.	.	.	.	-3	-1.0
44	MARGARETVILLE	16APR2013	.	.	.	.	.	.	.	.
45	MARGARETVILLE	07MAY2013	.	.	.	.	.	.	-3	-1.0
46	MARGARETVILLE	08MAY2013	.	.	.	.	.	.	.	.
47	MARGARETVILLE	21MAY2013	.	.	.	.	.	.	-3	-1.0
48	MARGARETVILLE	22MAY2013	.	.	.	.	.	.	.	.

Obs	SETSLDS	TDS	TP	NH3	NO3	TKN	TCREFF	CL	FCOLI	FCCODE	MBAS
33	.	.	.	.	.	.	.	.	.	.	.
34	-0.1	.	0.032	-0.20	.	.	-0.04	.	-1	.	.
35	-0.1	.	0.031	0.22	.	.	-0.04	.	-1	.	.
36	-0.1	.	0.022	-0.20	.	.	-0.04	.	-1	.	.
37	-0.1	.	0.095	-0.20	.	.	-0.04	.	-1	.	.
38	-0.1	.	.	-0.20	.	.	-0.04	.	-1	.	.
39	.	.	0.623	.	.	.	.	.	.	.	.
40	-0.1	.	0.024	-0.20	.	.	-0.04	.	-1	.	.
41	.	.	0.056	-0.20	.	.	.	.	.	.	.
42	.	.	.	.	.	.	.	.	-1	.	.
43	.	.	0.061	-0.20	.	.	.	.	.	.	.
44	.	.	.	.	.	.	.	.	-1	.	.
45	.	.	0.060	-0.20	.	.	.	.	.	.	.
46	.	.	.	.	.	.	.	.	-1	.	.
47	.	.	0.054	-0.20	.	.	.	.	.	.	.
48	.	.	.	.	.	.	.	.	1	.	.

Delaware District

Obs	PLANT	COLLECT	FLOW	TEMP	PH	DO	TURB	BOD5	CBOD5	SUSPSLDS
49	MARGARETVILLE	04JUN2013	.	.	.	.	.	.	-3.0	-1.0
50	MARGARETVILLE	04JUN2013	.	.	.	.	.	.	.	.
51	MARGARETVILLE	05JUN2013	.	.	.	.	.	.	.	.
52	MARGARETVILLE	18JUN2013	.	.	.	.	.	.	-3.0	-1.0
53	MARGARETVILLE	19JUN2013	.	.	.	.	.	.	.	.
54	MOUNTAINSIDE FARMS	03APR2013	0.039	6.3	6.08	5.7	20.00	34.8	.	96.0
55	MOUNTAINSIDE FARMS	03APR2013	.	.	.	.	.	.	.	.
56	MOUNTAINSIDE FARMS	10APR2013	0.037	12.0	6.82	6.5	6.90	27.7	.	21.3
57	MOUNTAINSIDE FARMS	10APR2013	.	.	.	.	.	.	.	.
58	MOUNTAINSIDE FARMS	01MAY2013	0.039	12.8	7.02	6.7	7.30	-3.0	.	24.0
59	MOUNTAINSIDE FARMS	01MAY2013	.	.	.	.	.	.	.	.
60	MOUNTAINSIDE FARMS	01MAY2013	.	.	.	.	.	.	.	.
61	MOUNTAINSIDE FARMS	08MAY2013	0.029	15.7	6.78	4.8	16.00	15.8	.	48.0
62	MOUNTAINSIDE FARMS	08MAY2013	.	.	.	.	.	.	.	.
63	MOUNTAINSIDE FARMS	08MAY2013	.	.	.	.	.	.	.	.
64	MOUNTAINSIDE FARMS	08MAY2013	.	.	.	.	.	.	.	.

Obs	SETSLDS	TDS	TP	NH3	NO3	TKN	TCREFF	CL	FCOLI	FCCODE	MBAS
49	.	.	.	-0.2	.	.	.	.	.	.	.
50	.	.	0.063	.	.	.	.	.	.	.	.
51	-1	.	.
52	.	.	0.092	-0.2	.	.	.	.	.	.	.
53	-1	.	.
54	.	.	0.430	.	0.04	.	.	.	.	.	0.190
55	519.0	.	.	.
56	.	.	0.443	.	0.01	.	.	.	.	.	0.130
57	0.10	.	.	371.0	.	.	.
58	0.02	.	.	-0.5	.	.	-0.050
59	290.0	.	.	.
60	.	.	0.545	.	.	.	.	.	.	.	.
61	-0.01	.	.	.	.	.	-0.050
62	-0.01	.	.	.	.	.	.
63	0.01	.	.	.	.	.	.
64	-0.01	.	.	.	.	.	.

Delaware District

Obs	PLANT	COLLECT	FLOW	TEMP	PH	DO	TURB	BOD5	CBOD5	SUSPSLDS
65	MOUNTAINSIDE FARMS	08MAY2013	.	.	.	.	.	.	.	.
66	MOUNTAINSIDE FARMS	08MAY2013	.	.	.	.	.	.	.	.
67	MOUNTAINSIDE FARMS	08MAY2013	.	.	.	.	.	.	.	.
68	MOUNTAINSIDE FARMS	05JUN2013	0.033	17.4	6.63	4.6	19.00	32.4	.	73.0
69	MOUNTAINSIDE FARMS	05JUN2013	.	.	.	.	.	.	.	.
70	MOUNTAINSIDE FARMS	12JUN2013	0.034	17.9	6.72	4.3	21.00	44.3	.	48.3
71	MOUNTAINSIDE FARMS	12JUN2013	.	.	.	.	.	.	.	.
72	ROXBURY	03APR2013	0.012	3.0	7.36	12.8	0.55	.	-3.0	-1.0
73	ROXBURY	10APR2013	0.007	7.6	7.38	11.5	0.60	.	-3.0	-1.0
74	ROXBURY	01MAY2013	0.006	11.7	7.57	10.3	0.75	.	-3.0	-1.0
75	ROXBURY	01MAY2013	.	.	.	.	.	.	.	.
76	ROXBURY	08MAY2013	0.005	12.8	.	10.3	1.40	.	-3.0	-1.0
77	ROXBURY	08MAY2013	.	.	.	.	.	.	.	.
78	ROXBURY	05JUN2013	0.010	15.9	7.66	9.6	0.85	.	-3.0	1.2
79	ROXBURY	05JUN2013	.	.	.	.	.	.	.	.
80	ROXBURY	12JUN2013	0.044	14.6	7.64	9.7	0.40	.	-3.0	-1.0

Obs	SETSLDS	TDS	TP	NH3	NO3	TKN	TCREFF	CL	FCOLI	FCCODE	MBAS
65	.	.	.	.	-0.01	.	.	.	.	.	.
66	.	.	.	.	.	.	.	316	.	.	.
67	.	.	0.801	.	.	.	.	.	.	.	.
68	.	.	.	.	.	.	.	304	.	.	-0.050
69	.	.	1.120	.	.	.	.	.	.	.	.
70	.	.	.	.	.	.	.	317	.	.	0.056
71	.	.	1.160	.	.	.	.	.	.	.	.
72	-0.1	.	0.169	-0.20	.	.	-0.04	.	-1	.	.
73	-0.1	.	0.188	-0.20	.	.	-0.04	.	-1	.	.
74	0.1	.	.	-0.20	.	.	-0.04	.	-1	.	.
75	.	.	0.204	.	.	.	.	.	.	.	.
76	-0.1	.	.	-0.20	.	.	-0.04	.	-1	.	.
77	.	.	0.214	.	.	.	.	.	.	.	.
78	0.1	.	.	-0.20	.	.	-0.04	.	1	.	.
79	.	.	0.267	.	.	.	.	.	.	.	.
80	-0.1	.	.	-0.20	.	.	-0.04	.	-1	.	.

Delaware District

Obs	PLANT	COLLECT	FLOW	TEMP	PH	DO	TURB	BOD5	CBOD5	SUSPSLDS
81	ROXBURY	12JUN2013	.	.	.	.	.	.	.	.
82	STAMFORD	03APR2013	0.410	7.9	6.66	11.5	0.15	.	4.0	-1.0
83	STAMFORD	10APR2013	0.400	11.0	6.39	9.8	-0.10	.	4.4	-1.0
84	STAMFORD	01MAY2013	0.412	12.1	6.58	10.1	-0.10	.	4.2	-1.0
85	STAMFORD	08MAY2013	0.338	14.0	6.58	9.5	0.10	.	4.1	-1.0
86	STAMFORD	05JUN2013	0.535	14.6	6.89	9.3	0.10	.	3.5	-1.0
87	STAMFORD	05JUN2013	.	.	.	.	.	.	.	.
88	STAMFORD	12JUN2013	0.716	13.7	7.02	9.7	0.10	.	-3.0	-1.0
89	STAMFORD	19JUN2013	.	12.3	6.83	.	0.30	.	.	.
90	WALTON	11APR2013	1.154	15.5	7.34	9.2	0.70	.	17.8	-1.0
91	WALTON	17APR2013	1.285	15.8	7.51	10.1	0.25	.	5.1	-1.0
92	WALTON	09MAY2013	1.107	18.8	7.45	9.4	0.45	.	17.6	1.2
93	WALTON	22MAY2013	1.006	23.7	7.51	7.4	0.30	.	54.8	-1.0
94	WALTON	22MAY2013	.	.	.	.	.	.	.	.
95	WALTON	19JUN2013	1.273	20.4	7.74	8.5	0.30	.	3.5	-1.0
96	WALTON	26JUN2013	1.170	23.6	7.79	.	0.40	.	4.1	-1.0

Obs	SETSLDS	TDS	TP	NH3	NO3	TKN	TCREFF	CL	FCOLI	FCCODE	MBAS
81	.	.	0.292	.	.	.	.	.	.	.	.
82	-0.1	.	0.008	-0.20	.	0.63	-0.04	.	-1	.	.
83	-0.1	.	0.008	-0.20	.	0.59	-0.04	.	-1	.	.
84	-0.1	.	0.012	-0.20	.	-0.20	-0.04	.	-1	.	.
85	-0.1	.	0.014	-0.20	.	0.66	-0.04	.	-1	.	.
86	-0.1	.	.	-0.20	.	0.42	-0.04	.	3	.	.
87	.	.	0.050	.	.	.	.	.	.	.	.
88	0.1	.	-0.005	-0.20	.	0.37	-0.04	.	-1	.	.
89	.	.	.	.	.	.	.	.	.	.	.
90	-0.1	.	0.023	-0.20	.	0.69	0.04	.	-1	.	.
91	-0.1	.	0.024	-0.20	.	0.62	0.04	.	-1	.	.
92	-0.1	.	0.029	-0.20	.	0.87	-0.04	.	-1	.	.
93	-0.1	.	0.029	-0.20	.	0.83	.	.	1	.	.
94	.	.	.	.	.	.	-0.04	.	.	.	.
95	0.1	.	0.014	-0.20	.	0.58	-0.04	.	-1	.	.
96	-0.1	.	0.031	1.08	.	2.20	-0.04	.	1	.	.

Delaware District

Obs	PLANT	COLLECT	FLOW	TEMP	PH	DO	TURB	BOD5	CBOD5	SUSPSLDS
97	WEST DELAWARE BOCES	11APR2013	0.004	12.8	7.21	5.3	1.70	.	-3.0	-1.0
98	WEST DELAWARE BOCES	17APR2013	0.003	13.0	7.32	6.9	0.10	.	-3.0	-1.0
99	WEST DELAWARE BOCES	09MAY2013	0.004	16.0	6.88	6.1	0.15	.	-3.0	-1.0
100	WEST DELAWARE BOCES	09MAY2013	.	.	.	.	.	.	.	.
101	WEST DELAWARE BOCES	22MAY2013	0.003	17.8	6.66	5.9	0.25	.	-3.0	-1.0
102	WEST DELAWARE BOCES	22MAY2013	.	.	.	.	.	.	.	.
103	WEST DELAWARE BOCES	22MAY2013	.	.	.	.	.	.	.	.
104	WEST DELAWARE BOCES	19JUN2013	0.005	19.3	7.25	4.8	0.30	.	-3.0	-1.0
105	WEST DELAWARE BOCES	19JUN2013	.	.	.	.	.	.	.	.
106	WEST DELAWARE BOCES	26JUN2013	0.002	22.4	7.31	.	0.10	.	-3.0	-1.0
107	WEST DELAWARE BOCES	26JUN2013	.	.	.	.	.	.	.	.

Obs	SETSLDS	TDS	TP	NH3	NO3	TKN	TCREFF	CL	FCOLI	FCCODE	MBAS
97	-0.1	790	0.109	28.60	.	.	-0.04	.	-1	.	.
98	-0.1	690	0.130	27.80	.	.	-0.04	.	-1	.	.
99	-0.1	560	.	0.35	.	.	-0.04	.	-1	.	.
100	.	.	0.276	.	.	.	.	.	.	.	.
101	-0.1	700	.	0.51	.	.	.	.	-1	.	.
102	.	.	.	.	.	.	-0.04	.	.	.	.
103	.	.	0.462	.	.	.	.	.	.	.	.
104	-0.1	760	.	-0.20	.	.	-0.04	.	-1	.	.
105	.	.	0.396	.	.	.	.	.	.	.	.
106	-0.1	950	.	0.41	.	.	-0.04	.	-1	.	.
107	.	.	0.509	.	.	.	.	.	.	.	.