

New York State Department of Environmental Conservation

Division of Environmental Permits, 4th Floor

625 Broadway, Albany, NY 12233-1750

Phone: (518) 402-9167 • Fax: (518) 402-9168

Website: www.dec.ny.gov



IMPORTANT NOTICE TO ALL PERMITTEES

The permit you requested is enclosed. Please read it carefully and note the conditions that are included in it. The permit is valid for only that activity expressly authorized therein; work beyond the scope of the permit may be considered a violation of law and be subject to appropriate enforcement action. Granting of this permit does not relieve the permittee of the responsibility of obtaining any other permission, consent or approval from any other federal, state, or local government which may be required.

Please note the expiration date of the permit. Applications for permit renewal should be made well in advance of the expiration date (minimum of 30 days) and submitted to the Regional Permit Administrator at the above address. For SPDES, Solid Waste and Hazardous Waste Permits, renewals must be made at least 180 days prior to the expiration date.

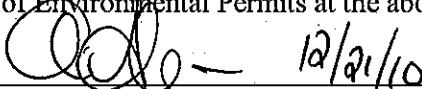
- ☐ Applicable only if checked. Please note all work authorized under this permit is prohibited during trout spawning season commencing October 1 and ending April 30.

The DEC permit number & program ID number noted on page 1 under "Permit Authorization" of the permit are important and should be retained for your records. These numbers should be referenced on all correspondence related to the permit, and on any future applications for permits associated with this facility/project area.

If a permit notice sign is enclosed, you must post it at the work site with appropriate weather protection, as well as a copy of the permit per General Condition 1.

If the permit is associated with a project that will entail construction of new water pollution control facilities or modifications to existing facilities, plan approval for the system design will be required from the appropriate Department's regional Division of Water or delegated local Health Department, as specified in the State Pollutant Discharge Elimination System (SPDES) permit.

If you have any questions on the extent of work authorized or your obligations under the permit, please contact the staff person indicated below or the Division of Environmental Permits at the above address.

 12/21/10

ANDREA SHEERAN

ENVIRONMENTAL ANALYST

Division of Environmental Permits, Central Office & Region 3

Telephone (518) 401-9167 (845) 256-2250

Attachments:

Permit NY 027 0598

CCs:

Rockland Co DOH

NYSEFC

File

ECCs Only:

Paul Schorr, NJDEP

Paul Kolakowski, CO BWP

Michelle Josilo, USEPA Reg II

Manju Cherian, R3 DOW WP

Erin Shirkey, R3 DOW WP

Cheri Jamison, CO BWP

Chron



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
State Pollutant Discharge Elimination System (SPDES)
DISCHARGE PERMIT

First3.99

Industrial Code: **4952**
Discharge Class (CL): **05**
Toxic Class (TX): **N**
Major Drainage Basin: **15**
Sub Drainage Basin: **01**
Water Index Number: **NJ-12**
Compact Area:

SPDES Number: **NY0270598**
DEC Number: **3-3926-00537/00001**
Effective Date (EDP): **12/01/2009**
Expiration Date (ExDP): **11/30/2014**
Modification Dates:(EDPM) **10/07/2010, 12/21/2010**

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the Clean Water Act, as amended, (33 U.S.C. §1251 et.seq.)(hereinafter referred to as "the Act").

PERMITTEE NAME AND ADDRESS

Name: **Rockland County Sewer District #1**
Street: **4 Route 340**
City: **Orangeburg**

Attention: **Dianne Philipps, P.E.**

State: **NY** Zip Code: **10962**

is authorized to discharge from the facility described below:

FACILITY NAME AND ADDRESS

Name: **Western Ramapo AWTP**
Location (C,T,V): **Hillburn (V)**
Facility Address: **137 Route 17**
City: **Hillburn**

County: **Rockland**

State: **NY** Zip Code: **10931**

NYTM -E:

NYTM - N:

From Outfall No.: **001** at Latitude: **41 ° 08 ' 22 "** & Longitude: **74 ° 10 ' 22 "**
into receiving waters known as: **Ramapo River** Class: **A**

and; (list other Outfalls, Receiving Waters & Water Classifications)
See page 2

in accordance with: effluent limitations; monitoring and reporting requirements; other provisions and conditions set forth in this permit; and 6 NYCRR Part 750-1.2(a) and 750-2.

DISCHARGE MONITORING REPORT (DMR) MAILING ADDRESS

Mailing Name: **Dianne Philipps, P.E.**

Street: **4 Route 340**

City: **Orangeburg**

State: **NY** Zip Code: **10962**


Responsible Official or Agent: **Dianne Philipps, P.E.**

Phone: **(845) 365-6094**

This permit and the authorization to discharge shall expire on midnight of the expiration date shown above and the permittee shall not discharge after the expiration date unless this permit has been renewed, or extended pursuant to law. To be authorized to discharge beyond the expiration date, the permittee shall apply for permit renewal not less than 180 days prior to the expiration date shown above.

DISTRIBUTION:

CO BWP - Permit Coordinator
RWE
RPA
EPA Region II - Michelle Josilo
NYSEFC
NJDEP
Rockland Co Health Dept.

Permit Administrator: John J. Ferguson, Chief Permit Administrator	
Address: 625 Broadway, 4 th Fl. Albany, NY 12233-1750	
Signature: 	Date: 12/21/10

ADDITIONAL OUTFALLS

Outfall No.	Description	Latitude	Longitude	Receiving Stream/Class
001	Main outfall pumped above well fields	41°08'22"	74°10'22"	Ramapo River, Class A
002	Main outfall – gravity to below well fields	41°07'15"	74°09'50"	Trib. of Ramapo River, Class C(T)
003	Emergency bypass to Orangeburg STP (1)			
004	Stormwater	41°07'15"	74°09'50"	Unnamed trib. of Ramapo River

- (1) This outfall shall be used only in case of catastrophic failure of the wastewater treatment plant. The permittee shall notify the Department of the intent to use the bypass and receive permission to do so before the use is allowed.

PERMIT LIMITS, LEVELS AND MONITORING DEFINITIONS

OUTFALL	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING	
	This cell describes the type of wastewater authorized for discharge. Examples include process or sanitary wastewater, storm water, non-contact cooling water.	This cell lists classified waters of the state to which the listed outfall discharges.	The date this page starts in effect. (e.g. EDP or EDPM)	The date this page is no longer in effect. (e.g. ExDP)	
PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQ.	SAMPLE TYPE
e.g. pH, TRC, Temperature, D.O.	The minimum level that must be maintained at all instants in time.	The maximum level that may not be exceeded at any instant in time.	SU, °F, mg/l, etc.		

PARAMETER	EFFLUENT LIMIT	PRACTICAL QUANTITATION LIMIT (ML)	ACTION LEVEL	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE
	Limit types are defined below in Note 1. The effluent limit is developed based on the more stringent of technology-based standards, required under the Clean Water Act, or New York State water quality standards. The limit has been derived based on existing assumptions and rules. These assumptions include receiving water hardness, pH and temperature; rates of this and other discharges to the receiving stream; etc. If assumptions or rules change the limit may, after due process and modification of this permit, change.	For the purposes of compliance assessment, the analytical method specified in the permit shall be used to monitor the amount of the pollutant in the outfall to this level, provided that the laboratory analyst has complied with the specified quality assurance/quality control procedures in the relevant method. Monitoring results that are lower than this level must be reported, but shall not be used to determine compliance with the calculated limit. This ML can be neither lowered nor raised without a modification of this permit.	Action Levels are monitoring requirements, as defined below in Note 2, that trigger additional monitoring and permit review when exceeded.	This can include units of flow, pH, mass, Temperature, concentration. Examples include µg/l, lbs/d, etc.	Examples include Daily, 3/week, weekly, 2/month, monthly, quarterly, 2/yr and yearly.	Examples include grab, 24 hour composite and 3 grab samples collected over a 6 hour period.

Note 1: DAILY DISCHARGE: The discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for the purposes of sampling. For pollutants expressed in units of mass, the 'daily discharge' is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the 'daily discharge' is calculated as the average measurement of the pollutant over the day. **DAILY MAX:** The highest allowable daily discharge. **DAILY MIN:** The lowest allowable daily discharge. **MONTHLY AVG (daily avg):** The highest allowable average of daily discharges over a calendar month, calculated as the sum of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month. **RANGE:** The minimum and maximum instantaneous measurements for the reporting period must remain between the two values shown. **7 DAY ARITHMETIC MEAN (7 day average):** The highest allowable average of daily discharges over a calendar week. **12 MRA (twelve month rolling avg):** The average of the most recent twelve month's monthly averages. **30 DAY GEOMETRIC MEAN (30 d geo mean):** The highest allowable geometric mean of daily discharges over a calendar month, calculated as the antilog of : the sum of the log of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month. **7 DAY GEOMETRIC MEAN (7 d geo mean):** The highest allowable geometric mean of daily discharges over a calendar week.

Note 2: ACTION LEVELS: Routine Action Level monitoring results, if not provided for on the Discharge Monitoring Report (DMR) form, shall be appended to the DMR for the period during which the sampling was conducted. If the additional monitoring requirement is triggered as noted below, the permittee shall undertake a short-term, high-intensity monitoring program for the parameter(s). Samples identical to those required for routine monitoring purposes shall be taken on each of at least three consecutive operating and discharging days and analyzed. Results shall be expressed in terms of both concentration and mass, and shall be submitted no later than the end of the third month following the month when the additional monitoring requirement was triggered. Results may be appended to the DMR or transmitted under separate cover to the same address. If levels higher than the Action Levels are confirmed, the permit may be reopened by the Department for consideration of revised Action Levels or effluent limits. The permittee is not authorized to discharge any of the listed parameters at levels which may cause or contribute to a violation of water quality standards. The additional monitoring requirement is triggered upon receipt by the permittee of any monitoring results in excess of the stated Action Level.

PERMIT LIMITS, LEVELS AND MONITORING 1.5 MGD

OUTFALL No.	LIMITATIONS APPLY:	RECEIVING WATER	EFFECTIVE	EXPIRING
001	All Year unless otherwise noted	Ramapo River	12/21/2010	(7)

PARAMETER	EFFLUENT LIMIT					MONITORING REQUIREMENTS				FN
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.	Eff.	
Flow	Monthly average			1.5	mgd	Continuous	Recorder		X	(5) (9)
CBOD ₅ (June 1 – Oct 31)	Monthly average	Monitor	mg/l	Monitor	lbs/d	1/week	24-hr. comp.		X	(1) (6)
CBOD ₅ (Nov 1 – May 31)	Monthly average	25	mg/l	310	lbs/d	1/week	24-hr. comp.	X	X	(1) (7)
CBOD ₅ (Nov 1 – May 31)	7 day average	40	mg/l	500	lbs/d	1/week	24-hr. comp.		X	(6)
UOD (June 1 – Oct 31)	Daily Maximum	35	mg/l	440	lbs/d	1/week	24-hr. comp.		X	(2) (6)
UOD (Nov 1 – May 31)	Daily Maximum	120	mg/l	1500	lbs/d	1/week	24-hr. comp.		X	(2) (6)
Solids, Suspended	Monthly average	15	mg/l	190	lbs/d	1/week	24-hr. comp.	X	X	(1) (7)
Solids, Suspended	7 day average	23	mg/l	290	lbs/d	1/week	24-hr. comp.		X	(6)
Solids, Settleable	Daily Max.	0.1	ml/l			1/week	Grab		X	
pH	Range	6.0-9.0	SU			1/day	Grab		X	
Nitrogen, Ammonia (as NH ₃) (June 1 – Oct 31)	Monthly Average	2.8	mg/l			1/week	24-hr. comp.		X	
Nitrogen, Ammonia (as NH ₃) (Nov 1 – May 31)	Monthly Average	7.6	mg/l			1/week	24-hr. comp.		X	
Nitrogen, TKN (as N)	Monthly Average	Monitor	mg/l			1/week	24-hr. comp.		X	
Nitrate as N	Monthly Average	Monitor	mg/l			1/week	24-hr. comp.		X	
Phosphorus, Total (as P)	12-month rolling avg.	0.2	mg/l	Monitor	lbs/d	1/week	24-hr. comp.		X	(8)
Priority Pollutant Scan	----					1/year	24-hr. comp.			(3)
Dissolved Oxygen	Daily Minimum	7.0	mg/l			1/day	Grab		X	
Coliform, Fecal	30 day geometric mean	200	No./100 ml			1/week	Grab		X	
Coliform, Fecal	7 day geometric mean	400	No./100 ml			1/week	Grab		X	
Chlorine, Total Residual	Daily Max.	0.1	mg/l			2/day	Grab		X	(4)

FOOTNOTES on page 6.

PERMIT LIMITS, LEVELS AND MONITORING 1.5 MGD

OUTFALL No.	LIMITATIONS APPLY:	RECEIVING WATER	EFFECTIVE	EXPIRING
002	All Year unless otherwise noted	Trib. of Ramapo River	12/21/2010	(7)

PARAMETER	EFFLUENT LIMIT					MONITORING REQUIREMENTS				FN
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.	Eff.	
Flow	Monthly average			1.5	mgd	Continuous	Recorder		X	(5) (9)
CBOD ₅ (June 1 – Oct 31)	Monthly average	Monitor	mg/l	Monitor	lbs/d	1/week	24-hr. comp.		X	(1) (7)
CBOD ₅ (Nov 1 – May 31)	Monthly average	25	mg/l	310	lbs/d	1/week	24-hr. comp.	X	X	(1) (6)
UOD (June 1 – Oct 31)	Daily Maximum	35	mg/l	440	lbs/d	1/week	24-hr. comp.		X	(2) (6)
UOD (Nov 1 – May 31)	Daily Maximum	44	mg/l	550	lbs/d	1/week	24-hr. comp.		X	(2) (6)
Solids, Suspended	Monthly average	15	mg/l	190	lbs/d	1/week	24-hr. comp.	X	X	(1) (6)
Solids, Suspended	7 day average	23	mg/l	290	lbs/d	1/week	24-hr. comp.		X	(6)
Solids, Settleable	Daily Max.	0.1	ml/l			1/week	Grab		X	
pH	Range	6.0-9.0	SU			1/day	Grab		X	
Nitrogen, Ammonia (as NH ₃) (June 1 – Oct 31)	Monthly Average	2.8	mg/l			1/week	24-hr. comp.		X	
Nitrogen, Ammonia (as NH ₃) (Nov 1 – May 31)	Monthly Average	3.8	mg/l			1/week	24-hr. comp.		X	
Nitrogen, TKN (as N)	Monthly Average.	Monitor	mg/l			1/week	24-hr. comp.		X	
Nitrate as N	Monthly Average	Monitor	mg/l			1/week	24-hr. comp.		X	
Phosphorus, Total (as P)	12-month rolling avg.	0.2	mg/l	Monitor	lbs/d	1/week	24-hr. comp.		X	(8)
Priority Pollutant Scan	----					1/year	24-hr. comp.			(3)
Dissolved Oxygen	Daily Minimum	7.0	mg/l			1/day	Grab		X	
Coliform, Fecal	30 day geometric mean	200	No./100 ml			1/week	Grab		X	
Coliform, Fecal	7 day geometric mean	400	No./100 ml			1/week	Grab		X	
Chlorine, Total Residual	Daily Max.	0.1	mg/l			2/day	Grab		X	(4)

FOOTNOTES on next page.

FOOTNOTES AND ADDITIONAL CONDITIONS

(1) and effluent shall not exceed 15 % and 15 % of influent concentration values for CBOD₅ & TSS respectively.

(2) Ultimate Oxygen Demand shall be computed as follows: $UOD = 1.5 \times CBOD_5 + 4.5 \times TKN$ (Total Kjeldahl Nitrogen)

(3) A representative effluent sample shall be analyzed for priority pollutants, except pesticides and dioxin, once a year for two consecutive years, beginning within 60 days after November 25, 2009, i.e. the startup date. The results shall be submitted to the Regional Water Engineer and the Bureau of Water Permits, 625 Broadway, Albany, NY 12233-3505. Upon review of the analysis, the Department may reopen the permit to include additional permit limits, action levels and/or monitoring.

(4) This permit limit is based on the Practical Quantitation Level of EPA Method 330.5. The water quality based effluent limit is 0.025 mg/l.

(5) The flow limit is for a summation of the flow from Outfalls 001 and 002. The flow from each outfall shall be reported on each month's DMR.

(6) All mass limits shall be calculated as the summation of the mass discharged from each outfall.

Using TSS for an example, sampling 1/week produces 4 data points:

	1 st of month	8 th of month	15 th of month	22 nd of month
<u>Outfall 001</u>				
Flow, mgd	1.0	0.5	1.2	0
TSS, mg/l	8.0	9.1	7.3	--
<u>Outfall 002</u>				
Flow, mgd	0	0.6	0	1.3
TSS, mg/l	—	9.2	—	6.1

For the 1st of the month: $(1.0 \times 8.0 \times 8.34) + 0 = 66.72$ lbs/day

For the 8th of the month: $(0.5 \times 9.1 \times 8.34) + (0.6 \times 9.2 \times 8.34) = 83.98$ lbs/day

For the 15th of the month: $(1.2 \times 7.3 \times 8.34) + 0 = 73.06$ lbs/day

For the 22nd of the month: $0 + (1.3 \times 6.1 \times 8.34) = 66.14$ lbs/day

Report on the DMR:

Monthly average: $(66.72 + 83.98 + 73.06 + 66.14) / 4 = 72.475$, round to 72.

7-day average: Highest week: 83.98, round to 84

(7) The limits on this page shall expire upon startup of the 5 mgd facility. The startup date for the 5 mgd facility will be identified in a letter from the permittee to the offices listed on the Monitoring, Reporting and Recording page of this permit and to the Bureau of Water Permits, 625 Broadway, Albany, NY 12233-3505. Startup shall commence only after receipt of certification from a PE, licensed in NYS, that the treatment plant was constructed in accordance with DEC or EFC approved reports, plans and specifications.

(8) Monitoring of phosphorus shall be done for a period of one year beginning November 1, 2009 in order to develop the data for calculation of a 12-month rolling average. Compliance with the 12-MRA limit shall begin December 1, 2010. The twelve-month rolling average is an average of the current month's monthly average value with the previous eleven month's monthly average values. If no discharge from an outfall for the month, then no value shall be used in the calculation (due to the 2 outfall configuration).

(9) Effluent must be pumped so as to discharge through Outfall 001 at all times, except that Outfall 002 may be used when;

- the flow at the regulating weir, downstream from Outfall 002, exceeds 15 mgd, or
- emergency maintenance of Outfall 001 is required.

The permittee shall obtain the USGS mean daily discharge information, to determine which outfall to use, from the regulating weir at 9:00 am each day. Upon any change in outfall use, notification shall be made to NYSDEC – Region 3 RWE.

PERMIT LIMITS, LEVELS AND MONITORING 5.0 MGD

OUTFALL No.	LIMITATIONS APPLY:	RECEIVING WATER	EFFECTIVE	EXPIRING
001	All Year unless otherwise noted	Ramapo River	(6)	11/30/2014

PARAMETER	EFFLUENT LIMIT					MONITORING REQUIREMENTS				FN
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.	Eff.	
Flow	Monthly average			5.0	mgd	Continuous	Recorder		X	(4) (8)
CBOD ₅	Monthly average	Monitor	mg/l	Monitor	lbs/d	1/week	24-hr. comp.	X	X	(1) (5)
UOD (June 1 – Oct 31)	Daily Maximum	22	mg/l	920	lbs/d	1/week	24-hr. comp.		X	(2) (5)
UOD (Nov 1 – May 31)	Daily Maximum	44	mg/l	1800	lbs/d	1/week	24-hr. comp.		X	(2) (5)
Solids, Suspended	Monthly average	15	mg/l	630	lbs/d	1/week	24-hr. comp.	X	X	(1) (5)
Solids, Suspended	7 day average	23	mg/l	960	lbs/d	1/week	24-hr. comp.		X	(5)
Solids, Settleable	Daily Maximum	0.1	ml/l			1/week	Grab		X	
pH	Range	6.0-9.0	SU			1/day	Grab		X	
Nitrogen, Ammonia (as NH ₃) (June 1 – Oct 31)	Monthly Average	1.9	mg/l			1/week	24-hr. comp.		X	
Nitrogen, Ammonia (as NH ₃) (Nov 1 – May 31)	Monthly Average	3.8	mg/l			1/week	24-hr. comp.		X	
Nitrogen, TKN (as N)	Monthly Average.	Monitor	mg/l			1/week	24-hr. comp.		X	
Nitrate as N	Monthly Average	Monitor	mg/l			1/week	24-hr. comp.		X	
Phosphorus, Total (as P)	12-month rolling avg.	0.2	mg/l	Monitor	lbs/d	1/week	24-hr. comp.		X	(7)
Dissolved Oxygen	Daily Minimum	7.0	mg/l			1/day	Grab		X	
Coliform, Fecal	30 day geometric mean	200	No./100 ml			1/week	Grab		X	
Coliform, Fecal	7 day geometric mean	400	No./100 ml			1/week	Grab		X	
Chlorine, Total Residual	Daily Max.	0.1	mg/l			2/day	Grab		X	(3)

FOOTNOTES ON PAGE 9

PERMIT LIMITS, LEVELS AND MONITORING 5.0 MGD

OUTFALL No.	LIMITATIONS APPLY:	RECEIVING WATER	EFFECTIVE	EXPIRING
002	All Year unless otherwise noted	Ramapo River	(6)	11/30/2014

PARAMETER	EFFLUENT LIMIT					MONITORING REQUIREMENTS				FN
	Type	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Location		
								Inf.	Eff.	
Flow	Monthly average			5.0	mgd	Continuous	Recorder		X	(4) (8)
CBOD ₅	Monthly average	Monitor	mg/l	Monitor	lbs/d	1/week	24-hr. comp.	X	X	(1) (5)
UOD (June 1 – Oct 31)	Daily Maximum	22	mg/l	920	lbs/d	1/week	24-hr. comp.		X	(2) (5)
UOD (Nov 1 – May 31)	Daily Maximum	44	mg/l	1800	lbs/d	1/week	24-hr. comp.		X	(2) (5)
Solids, Suspended	Monthly average	15	mg/l	630	lbs/d	1/week	24-hr. comp.	X	X	(1) (5)
Solids, Suspended	7 day average	23	mg/l	960	lbs/d	1/week	24-hr. comp.		X	(5)
Solids, Settleable	Daily Maximum	0.1	ml/l			1/week	Grab		X	
pH	Range	6.0-9.0	SU			1/day	Grab		X	
Nitrogen, Ammonia (as NH ₃) (June 1 – Oct 31)	Monthly Average	1.9	mg/l			1/week	24-hr. comp.		X	
Nitrogen, Ammonia (as NH ₃) (Nov 1 – May 31)	Monthly Average	3.8	mg/l			1/week	24-hr. comp.		X	
Nitrogen, TKN (as N)	Monthly Average.	Monitor	mg/l			1/week	24-hr. comp.		X	
Nitrate as N	Monthly Average	Monitor	mg/l			1/week	24-hr. comp.		X	
Phosphorus, Total (as P)	12-month rolling avg.	0.2	mg/l	Monitor	lbs/d	1/week	24-hr. comp.		X	(7)
Dissolved Oxygen	Daily Minimum	7.0	mg/l			1/day	Grab		X	
Coliform, Fecal	30 day geometric mean	200	No./100 ml			1/week	Grab		X	
Coliform, Fecal	7 day geometric mean	400	No./100 ml			1/week	Grab		X	
Chlorine, Total Residual	Daily Max.	0.1	mg/l			2/day	Grab		X	(3)

FOOTNOTES ON NEXT PAGE

FOOTNOTES AND ADDITIONAL CONDITIONS

- (1) and effluent shall not exceed 15 % and 15 % of influent concentration values for CBOD₅ & TSS respectively.
- (2) Ultimate Oxygen Demand shall be computed as follows: $UOD = 1.5 \times CBOD_5 + 4.5 \times TKN$ (Total Kjeldahl Nitrogen)
- (3) This permit limit is based on the Practical Quantitation Level of EPA Method 330.5. The water quality based effluent limit is 0.025 mg/l.
- (4) The flow limit is for a summation of the flow from Outfalls 001 and 002. The flow from each outfall shall be reported on each month's DMR.
- (5) All mass limits shall be calculated as the summation of the mass discharged from each outfall.

Using TSS for an example, sampling 1/week produces 4 data points:

	<u>1st of month</u>	<u>8th of month</u>	<u>15th of month</u>	<u>22nd of month</u>
<u>Outfall 001</u>				
Flow, mgd	1.0	0.5	1.2	0
TSS, mg/l	8.0	9.1	7.3	--
<u>Outfall 002</u>				
Flow, mgd	0	0.6	0	1.3
TSS, mg/l	—	9.2	—	6.1

For the 1st of the month: $(1.0 \times 8.0 \times 8.34) + 0 = 66.72$ lbs/day

For the 8th of the month: $(0.5 \times 9.1 \times 8.34) + (0.6 \times 9.2 \times 8.34) = 83.98$ lbs/day

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Report on the DMR:

Monthly average: $(66.72 + 83.98 + 73.06 + 66.14) / 4 = 72.475$, round to 72.

7-day average: Highest week: 83.98, round to 84

(6) The limits on this page shall become effective upon startup of the 5 mgd facility. The startup date will be identified in a letter from the permittee to the offices listed on the last page of this permit and to the Bureau of Water Permits, 625 Broadway, Albany, NY 12233-3505. Startup shall commence only after submittal of certification from a PE, licensed in NYS, that the treatment plant was constructed in accordance with DEC or EFC approved reports, plans and specifications.

(7) The twelve-month rolling average is an average of the current month's monthly average value with the previous eleven month's monthly average values. If no discharge from an outfall for the month, then no value shall be used in the calculation (due to the 2 outfall configuration).

(8) Effluent must be pumped so as to discharge through Outfall 001 at all times, except that Outfall 002 may be used when;

- the flow at the regulating weir, downstream from Outfall 002, exceeds 15 mgd, or
- emergency maintenance of Outfall 001 is required.

The permittee shall obtain the USGS mean daily discharge information, to determine which outfall to use, from the regulating weir at 9:00 am each day. Upon any change in outfall use, notification shall be made to NYSDEC – Region 3 RWE.

DISCHARGE NOTIFICATION REQUIREMENTS

a) The permittee shall maintain the existing identification signs at all outfalls to surface waters, which have not been waived by the Department in accordance with 17-0815-a of the Environmental Conservation Law. The sign(s) shall be conspicuous, legible and in as close proximity to the point of discharge as is reasonably possible while ensuring the maximum visibility from the surface water and shore. The signs shall be installed in such a manner to pose minimal hazard to navigation, bathing or other water related activities. If the public has access to the water from the land in the vicinity of the outfall, an identical sign shall be posted to be visible from the direction approaching the surface water.

The signs shall have **minimum** dimensions of eighteen inches by twenty four inches (18" x 24") and shall have white letters on a green background and contain the following information:

N.Y.S. PERMITTED DISCHARGE POINT

SPDES PERMIT No.: NY _____

OUTFALL No. : _____

For information about this permitted discharge contact:

Permittee Name: _____

Permittee Contact: _____

Permittee Phone: () - ### - ####

OR:

NYSDEC Division of Water Regional Office Address :

NYSDEC Division of Water Regional Phone: () - ### - ####

b) For each discharge required to have a sign in accordance with a), the permittee shall provide for public review at a repository accessible to the public, copies of the Discharge Monitoring Reports (DMRs) as required by the **RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS** page of this permit. This repository shall be open to the public, at a minimum, during normal daytime business hours. The repository may be at the business office repository of the permittee or at an off-premises location of its choice (such location shall be the village, town, city or county clerk's office, the local library or other location as approved by the Department). In accordance with the **RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS** page of your permit, each DMR shall be maintained on record for a period of five years.

c) The permittee shall periodically inspect the outfall identification signs in order to ensure that they are maintained, are still visible and contain information that is current and factually correct.

PRETREATMENT PROGRAM IMPLEMENTATION REQUIREMENTS

- A. **DEFINITIONS.** Generally, terms used in this Section shall be defined as in the General Pretreatment Regulations (40 CFR Part 403). Specifically, the following definitions apply to terms used in this Section (PRETREATMENT PROGRAM IMPLEMENTATION REQUIREMENTS):
1. Categorical Industrial User (CIU)- an industrial user of the POTW that is subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N;
 2. Local Limits - General Prohibitions, specific prohibitions and specific limits as set forth in 40 CFR 403.5.
 3. The Publicly Owned Treatment Works (the POTW) - as defined by 40 CFR 403.3(o) and that discharges in accordance with this permit.
 4. Program Submission(s) - requests for approval or modification of the POTW Pretreatment Program submitted in accordance with 40 CFR 403.11 or 403.18 and approved by letter dated August 16, 1984.
 5. Significant Industrial User (SIU) -
 - a. CIUs;
 - b. Except as provided in 40 CFR 403.3(t)(2), any other industrial user that discharges an average of 25,000 gallons per day or more of process wastewater (excluding sanitary, non-contact cooling and boiler blowdown wastewater) to the POTW;
 - c. Except as provided in 40 CFR 403.3(t)(2), any other industrial user that contributes a process wastestream which makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant;
 - d. Any other industrial user that the permittee designates as having a reasonable potential for adversely affecting the POTW's operation or for violating a pretreatment standard or requirement.
 6. Substances of Concern - Substances identified by the New York State Department of Environmental Conservation Industrial Chemical Survey as substances of concern.
- B. **IMPLEMENTATION.** The permittee shall implement a POTW Pretreatment Program in accordance 40 CFR Part 403 and as set forth in the permittee's approved Program Submission(s). Modifications to this program shall be made in accordance with 40 CFR 403.18. Specific program requirements are as follows:
1. Industrial Survey. To maintain an updated inventory of industrial dischargers to the POTW the permittee shall:
 - a. Identify, locate and list all industrial users who might be subject to the industrial pretreatment program from the pretreatment program submission and any other necessary, appropriate and available sources. This identification and location list will be updated, at a minimum, every five years. As part of this update the permittee shall collect a current and complete New York State Industrial Chemical Survey form (or equivalent) from each SIU.
 - b. Identify the character and volume of pollutants contributed to the POTW by each industrial user identified in B.1.a above that is classified as a SIU.
 - c. Identify, locate and list, from the pretreatment program submission and any other necessary, appropriate and available sources, all significant industrial users of the POTW.

2. Control Mechanisms. To provide adequate notice to and control of industrial users of the POTW the permittee shall:
 - a. Inform by certified letter, hand delivery courier, overnight mail, or other means which will provide written acknowledgment of delivery, all industrial users identified in B.1.a. above of applicable pretreatment standards and requirements including the requirement to comply with the local sewer use law, regulation or ordinance and any applicable requirements under section 204(b) and 405 of the Federal Clean Water Act and Subtitles C and D of the Resource Conservation and Recovery Act.
 - b. Control through permit or similar means the contribution to the POTW by each SIU to ensure compliance with applicable pretreatment standards and requirements. Permits shall contain limitations, sampling frequency and type, reporting and self-monitoring requirements as described below, requirements that limitations and conditions be complied with by established deadlines, an expiration date not later than five years from the date of permit issuance, a statement of applicable civil and criminal penalties and the requirement to comply with Local Limits and any other requirements in accordance with 40 CFR 403.8(f)(1).
3. Monitoring and Inspection. To provide adequate, ongoing characterization of non-domestic users of the POTW, the permittee shall:
 - a. Receive and analyze self-monitoring reports and other notices. The permittee shall require all SIUs to submit self-monitoring reports at least every six months unless the permittee collects all such information required for the report, including flow data.
 - b. The permittee shall adequately inspect each SIU at a minimum frequency of once per year.
 - c. The permittee shall collect and analyze samples from each SIU for all priority pollutants that can reasonably be expected to be detectable at levels greater than the levels found in domestic sewage at a minimum frequency of once per year.
 - d. Require, through permits, each SIU to collect at least one 24 hour, flow proportioned composite (where feasible) effluent sample every six months and analyze each of those samples for all priority pollutants that can reasonably be expected to be detectable in that discharge at levels greater than the levels found in domestic sewage. The permittee may perform the aforementioned monitoring in lieu of the SIU except that the permittee must also perform the compliance monitoring described in 3.c.
4. Enforcement. To assure adequate, equitable enforcement of the industrial pretreatment program the permittee shall:
 - a. Investigate instances of noncompliance with pretreatment standards and requirements, as indicated in self-monitoring reports and notices or indicated by analysis, inspection and surveillance activities. Sample taking and analysis and the collection of other information shall be performed with sufficient care to produce evidence admissible in enforcement proceedings or in judicial actions. Enforcement activities shall be conducted in accordance with the permittee's Enforcement Response Plan developed and approved in accordance with 40 CFR Part 403.
 - b. Enforce compliance with all national pretreatment standards and requirements in 40 CFR Parts 406 - 471.
 - c. Provide public notification of significant non-compliance as required by 40 CFR 403.8(f)(2)(vii).
 - d. Pursuant to 40 CFR 403.5(e), when either the Department or the USEPA determines any source contributes pollutants to the POTW in violation of Pretreatment Standards or Requirements the Department or the USEPA shall notify the permittee. Failure by the permittee to commence an appropriate investigation and subsequent enforcement action within 30 days of this notification may result in appropriate enforcement action against the source and permittee.
5. Record keeping. The permittee shall maintain and update, as necessary, records identifying the nature, character, and volume of pollutants contributed by SIUs. Records shall be maintained in accordance with Part II. Section 10.3.a.

6. Staffing. The permittee shall maintain minimum staffing positions committed to implementation of the Industrial Pretreatment Program in accordance with the approved pretreatment program.
- C. SLUDGE DISPOSAL PLAN. The permittee shall notify NYSDEC, and USEPA as long as USEPA remains the approval authority, 60 days prior to any major proposed change in the sludge disposal plan. NYSDEC may require additional pretreatment measures or controls to prevent or abate an interference incident relating to sludge use or disposal.
- D. REPORTING. The permittee shall provide to the offices listed on the Monitoring, Reporting and Recording page of this permit and to the Chief-Water Permits and Compliance Branch; USEPA Region II; 290 Broadway; New York, NY 10007; a periodic report, prepared and submitted in accordance with the consistent periodic reporting format established by the Department in the document entitled NYSDEC POTW Periodic Pretreatment Report - 1994, that briefly describes the permittee's program activities over the previous year. This report shall be submitted to the above noted offices within 60 days of the end of the reporting period. The reporting period shall be **annual**, with reporting period(s) ending on December 31.

The periodic report shall include:

1. Industrial Survey. Updated industrial survey information in accordance with 40 CFR 403.12(I)(1) (including any NYS Industrial Chemical Survey forms updated during the reporting period).
 2. Implementation Status. Status of Program Implementation, to include:
 - a. Any interference, upset or permit violations experienced at the POTW directly attributable to industrial users.
 - b. Listing of significant industrial users issued permits.
 - c. Listing of significant industrial users inspected and/or monitored during the previous reporting period and summary of results.
 - d. Listing of significant industrial users notified of promulgated pretreatment standards or applicable local standards who are on compliance schedules. The listing should include for each facility the final date of compliance.
 - e. Summary of POTW monitoring results not already submitted on Discharge Monitoring Reports and toxic loadings from SIU's organized by parameter.
 - f. A summary of additions or deletions to the list of SIUs, with a brief explanation for each deletion.
 3. Enforcement Status. Status of enforcement activities to include:
 - a. Listing of significant industrial users in Significant Non-Compliance (as defined by 40 CFR 403.8(f)(2)(vii)) with federal or local pretreatment standards at end of the reporting period.
 - b. Summary of enforcement activities taken against non-complying significant industrial users. The permittee shall provide a copy of the public notice of significant violators as specified in 40 CFR Part 403.8(f)(2)(vii).
- E. ADDITIONAL PRETREATMENT CONDITIONS. The addition of another wastewater treatment facility to the Rockland County Sewer District #1's approved pretreatment program may require EPA review of the program. Therefore, the permittee must submit an application for approval of a modified pretreatment program to the Chief-Water Permits and Compliance Branch; USEPA Region II; 290 Broadway; New York, NY 10007 by December 10, 2009. The application should include:
1. A statement explaining why the program modification is being sought, and
 2. A detailed description of the portions of the program that would be affected by the modifications (including the legal authorities, program description, or resource commitments).

STORM WATER POLLUTION PREVENTION PLAN FOR POTWs WITH STORMWATER OUTFALLS

1. General - The Department has determined that stormwater discharges from POTWs with design flows at or above 1 mgd shall be covered under the SPDES permit. If the permittee has already submitted a Notice of Intent to the Department for coverage under the General Storm Water permit, the permittee shall submit a Notice of Termination to the Department upon receipt of this final SPDES permit containing the requirement to develop a SWPPP.

The permittee is required to develop, maintain, and implement a Storm Water Pollutant Prevention Plan (SWPPP) to prevent releases of significant amounts of pollutants to the waters of the State through plant site runoff; spillage and leaks; sludge or waste disposal; and other stormwater discharges including, but not limited to, drainage from raw material storage.

The SWPPP shall be documented in narrative form and shall include the 13 minimum elements below and plot plans, drawings, or maps necessary to clearly delineate the direction of stormwater flow and identify the conveyance, such as ditch, swale, storm sewer or sheet flow, and receiving water body. Other documents already prepared for the facility such as a Safety Manual or a Spill Prevention, Control and Countermeasure (SPCC) plan may be used as part of the SWPPP and may be incorporated by reference. A copy of the current SWPPP shall be submitted to the Department as required in item (2.) below and a copy must be maintained at the facility and shall be available to authorized Department representatives upon request.

2. Compliance Deadlines - The initial completed SWPPP has been submitted to the Regional Water Engineer and approved by the Department. The SWPPP shall continue to be implemented as approved. The SWPPP shall be reviewed annually and shall be modified whenever: (a) changes at the facility materially increase the potential for releases of pollutants; (b) actual releases indicate the SWPPP is inadequate, or (c) a letter from the Department identifies inadequacies in the SWPPP. The permittee shall certify in writing, as an attachment to the December Discharge Monitoring Report (DMR), that the annual review has been completed. All SWPPP revisions (with the exception of minimum elements - see item (4.B.) below) must be submitted to the Regional Water Engineer within 30 days. Note that the permittee is not required to obtain Department approval of the SWPPP (or of any minimum elements) unless notified otherwise. Subsequent modifications to or renewal of this permit does not reset or revise these deadlines unless a new deadline is set explicitly by such permit modification or renewal.

3. Facility Review - The permittee shall review all facility components or systems (including but not limited to material storage areas; in-plant transfer, process, and material handling areas; loading and unloading operations; storm water, erosion, and sediment control measures; process emergency control systems; and sludge and waste disposal areas) where materials or pollutants are used, manufactured, stored or handled to evaluate the potential for the release of pollutants to the waters of the State. In performing such an evaluation, the permittee shall consider such factors as the probability of equipment failure or improper operation, cross-contamination of storm water by process materials, settlement of facility air emissions, the effects of natural phenomena such as freezing temperatures and precipitation, fires, and the facility's history of spills and leaks. The relative toxicity of the pollutant shall be considered in determining the significance of potential releases.

The review shall address all substances present at the facility that are identified in Tables 6-10 of SPDES application Form NY-2C (available at <http://www.dec.state.ny.us/website/dcs/permits/olpermits/form2c.pdf>) as well as those that are required to be monitored by the SPDES permit.

4. A. 13 Minimum elements - Whenever the potential for a release of pollutants to State waters is determined to be present, the permittee shall identify Best Management Practices (BMPs) that have been established to prevent or minimize such potential releases. Where BMPs are inadequate or absent, appropriate BMPs shall be established. In selecting appropriate BMPs, the permittee shall consider good industry practices and, where appropriate, structural measures such as secondary containment and erosion/sediment control devices and practices. USEPA guidance for development of minimum elements of the SWPPP and BMPs is available in the September 1992 manual *Storm Water Management for Industrial Activities*, EPA 832-R-92-006 (available on-line at <http://nepis.epa.gov/pubtitleOW.htm>) At a minimum, the plan shall include the following elements:

- | | | |
|-------------------------------------|---|---------------------------------|
| 1. Pollution Prevention Team | 6. Security | 10. Spill Prevention & Response |
| 2. Reporting of BMP Incidents | 7. Preventive Maintenance | 11. Erosion & Sediment Control |
| 3. Risk Identification & Assessment | 8. Good Housekeeping | 12. Management of Runoff |
| 4. Employee Training | 9. Materials/Waste Handling, Storage, & Compatibility | 13. Street Sweeping |
| 5. Inspections and Records | | |

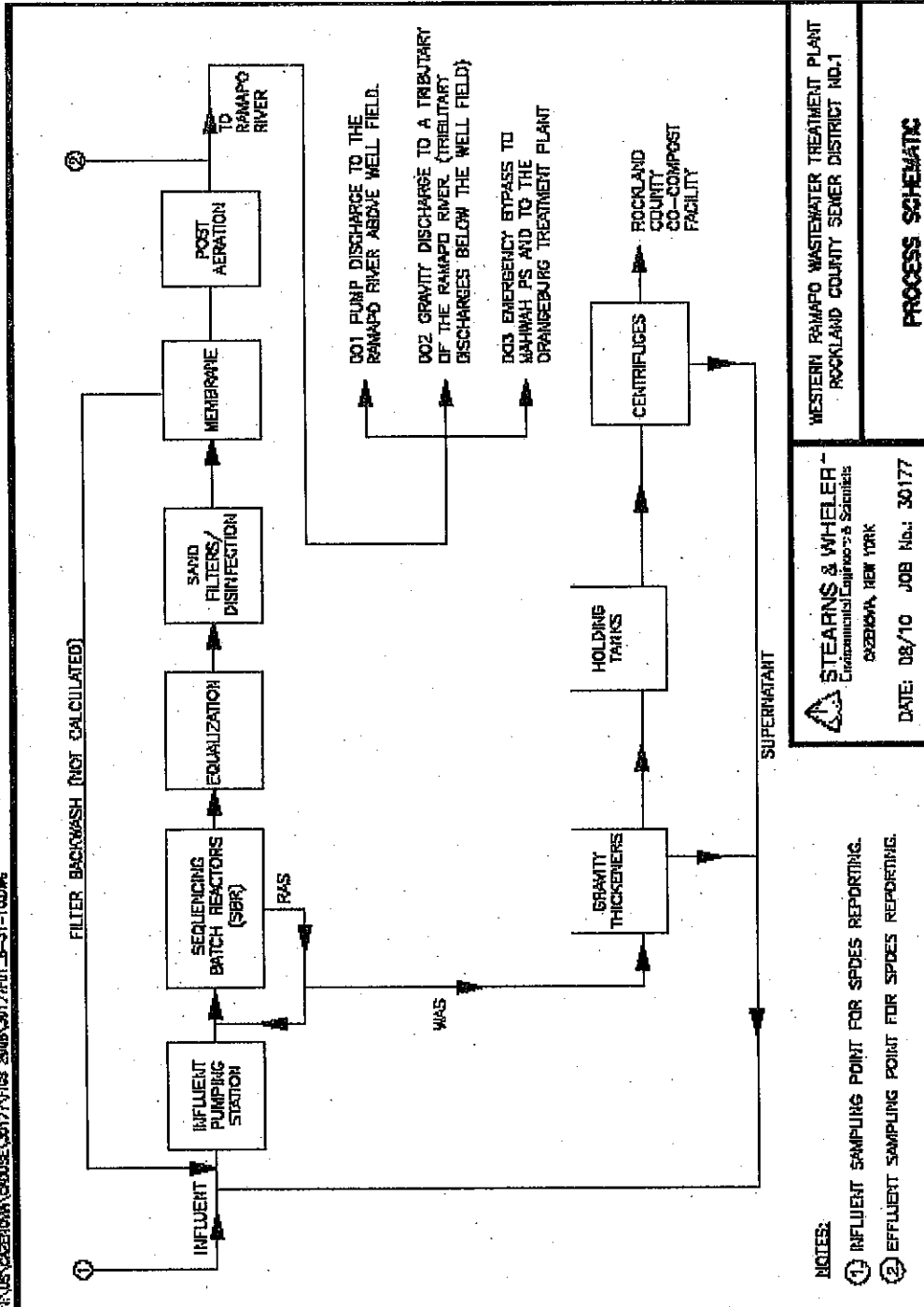
Note that for some facilities, especially those with few employees, some of the above may not be applicable. It is acceptable in these cases to indicate "Not Applicable" for the portion(s) of the SWPPP that do not apply to your facility, along with an explanation, for instance if street sweeping did not apply because no streets exist at the facility.

B. Stormwater Pollution Prevention Plans (SWPPPs) Required for Discharges of Stormwater From Construction Activity to Surface Waters - As part of the erosion and sediment control element, a SWPPP shall be developed prior to the initiation of any site disturbance of one acre or more of uncontaminated area. Uncontaminated area means soils or groundwater which are free of contamination by any toxic or non-conventional pollutants identified in Tables 6-10 of SPDES application Form NY-2C. Disturbance of any size contaminated area(s) and the resulting discharge of contaminated stormwater is not authorized by this permit unless the discharge is under State or Federal oversight as part of a remedial program or after review by the Regional Water Engineer; nor is such discharge authorized by any SPDES general permit for stormwater discharges. SWPPPs are not required for discharges of stormwater from construction activity to groundwaters.

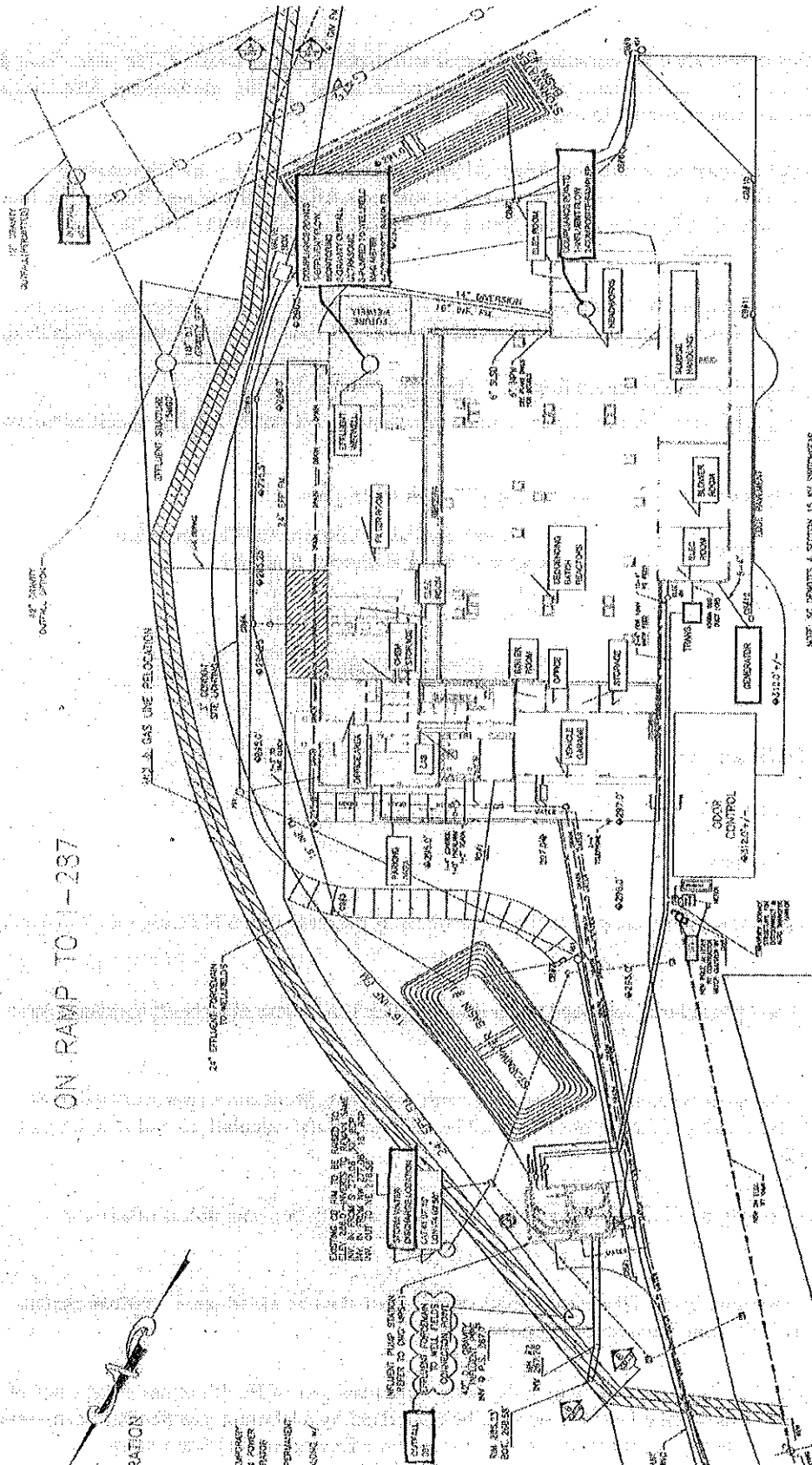
The SWPPP shall conform to the *New York Standards and Specifications for Erosion and Sediment Control* and *New York State Stormwater Management Design Manual*, unless a variance has been obtained from the Regional Water Engineer, and to any local requirements. The permittee shall submit a copy of the SWPPP and any amendments thereto to the local governing body and any other authorized agency having jurisdiction or regulatory control over the construction activity at least 30 days prior to soil disturbance. The SWPPP shall also be submitted to the Regional Water Engineer if contamination, as defined above, is involved and the permittee must obtain a determination of any SPDES permit modifications and/or additional treatment which may be required prior to soil disturbance. Otherwise, the SWPPP shall be submitted to the Department only upon request. When a SWPPP is required, a properly completed *Notice of Intent (NOI)* form shall be submitted (available at www.dec.state.ny.us/website/dow/toolbox/swforms.html) prior to soil disturbance. Note that submission of a NOI is required for informational purposes; the permittee is not eligible for and will not obtain coverage under any SPDES general permit for stormwater discharges, nor are any additional permit fees incurred. SWPPPs must be developed and submitted for subsequent site disturbances in accordance with the above requirements. The permittee is responsible for ensuring that the provisions of each SWPPP is properly implemented.

MONITORING LOCATIONS

The permittee shall take samples and measurements, to comply with the monitoring requirements in this permit, at the locations specified below:



OUTFALL LOCATIONS



RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

- a) The permittee shall also refer to 6 NYCRR Part 750-1.2(a) and 750-2 for additional information concerning monitoring and reporting requirements and conditions.
- b) The monitoring information required by this permit shall be summarized, signed and retained for a period of five years from the date of the sampling for subsequent inspection by the Department or its designated agent. **Also, monitoring information required by this permit shall be summarized and reported by submitting;**

☒ (if box is checked) completed and signed Discharge Monitoring Report (DMR) forms for each 1 month reporting period to the locations specified below. Blank forms are available at the Department's Albany office listed below. The first reporting period begins on the effective date of this permit and the reports will be due no later than the 28th day of the month following the end of each reporting period.

☐ (if box is checked) an annual report to the Regional Water Engineer at the address specified below. The annual report is due by February 1 and must summarize information for January to December of the previous year in a format acceptable to the Department.

☒ (if box is checked) a monthly "Wastewater Facility Operation Report..." (form 92-15-7) to the:

☒ Regional Water Engineer and/or ☒ County Health Department or Environmental Control Agency specified below

Send the DMRs with original signatures to:

Department of Environmental Conservation
Division of Water
Bureau of Water Compliance Programs
625 Broadway
Albany, New York 12233-3506

Phone: (518) 402-8177

Send a copy of each DMR page to:

Department of Environmental Conservation
Regional Water Engineer, Region 3
100 Hillside Avenue, Suite 1W
White Plains, NY 10603-2860

Phone: (914) 428-2505

Send an additional copy of each DMR page to:

Rockland Co. Health Department
The Dr. Robert L. Yeager Health Center
50 Sanatorium Road
Pomona, New York 10970 (845) 364-2608

- c) Noncompliance with the provisions of this permit shall be reported to the Department as prescribed in 6 NYCRR Part 750-1.2(a) and 750-2.
- d) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
- e) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculations and recording of the data on the Discharge Monitoring Reports.
- f) Calculation for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.
- g) Unless otherwise specified, all information recorded on the Discharge Monitoring Report shall be based upon measurements and sampling carried out during the most recently completed reporting period.
- h) Any laboratory test or sample analysis required by this permit for which the State Commissioner of Health issues certificates of approval pursuant to section five hundred two of the Public Health Law shall be conducted by a laboratory which has been issued a certificate of approval. Inquiries regarding laboratory certification should be sent to the Environmental Laboratory Accreditation Program, New York State Health Department Center for Laboratories and Research, Division of Environmental Sciences, The Nelson A. Rockefeller Empire State Plaza, Albany, New York 12201.