

**COUNTY OF SUFFOLK**



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**Office of Wastewater Management**  
**Report on the Sewage Treatment Plants of Suffolk County**  
**2015 Performance Evaluation**

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## Executive Summary

In 2015 the performance level of all the sewage treatment plants (STPs) in Suffolk County remained steady and the number of poorly performing plants reported in 2014 was reduced significantly. This marked the fifth consecutive year that overall effluent data met and/or surpassed the requirements of the New York State Department of Environmental Conservation (NYSDEC) and the Suffolk County Department of Health Services (Department). As of December 31 of 2015, there were a total of 195 STPs located within Suffolk County with 174 STPs being tertiary plants. Approximately 85.8% of the tertiary STPs in steady state were in compliance with NYSDEC's effluent requirements as compared to 35% in 1990. The 2015 average total nitrogen for all tertiary STPs in steady state and excluding 1 industrial plant was 7.57 mg/L compared to 9.9 mg/L in 2011. The overall performance of STPs in the County appeared to gradually approach the Department's goal of attaining the best possible treatment level for the available technologies utilized. This can be attributed to the close surveillance of the performance and operational conditions of the STPS by the NYSDEC and the Department.

The STPs in the County operate under the State Pollutant Discharge Elimination System (SPDES) Permit issued by NYSDEC and enforced by the Department under the State's authorization. Of the 195 STPs located within Suffolk County 174 were "tertiary" plants and 21 "secondary" plants. "Tertiary" plants are capable of reducing BOD<sub>5</sub> (Biochemical Oxygen Demand), SS (Total Suspended Solids), and TN (Total Nitrogen) and "secondary" plants are capable of reducing BOD<sub>5</sub> and SS only. Of the 174 existing tertiary facilities, 4 newly constructed plants which did not attain the adequate biological balances necessary for the effective treatment of wastewater and were classified as "not in steady-state" (NISS) plus one plant which treated industrial waste only were not included in the review of STP performance. Therefore, a total of 169 tertiary STPs including 3 "seasonal" plants were considered in evaluating the performance.

SCDHS has been requiring underperforming older plants and/or plants lacking nitrogen removal capability to undergo major renovations or a full plant replacement to improve performance. In 2015, 20 tertiary plants, on Order on Consent with the Department, were under construction for upgrades and/or repairs after being chronically non-compliant with their SPDES Permits. 14 of the 21 legacy secondary plants were in the process of transition to tertiary treatments with the addition of a nitrogen removal system. Two secondary plants were converted to tertiary nitrogen removal facility. Renovations of a significant number of the tertiary plants are expected to be completed during 2016. Furthermore, most of the secondary facilities that discharge to groundwater are expected to complete their upgrades by the end of 2017.

The life expectancy of a sewage treatment plant is approximately 30 years. There are many plants in Suffolk County that have been operating in the range of 25 to 40 years. Therefore, a few plants always undergo repairs and/or major renovations and during the construction it is expected that the plants' effluent quality would temporarily deviate from their SPDES Permit limitations. On the other hand, after commencing operations, it takes some time for the newly constructed plants to attain the optimum biological conditions necessary to induce the required treatment level and therefore, it is expected that some new plants may not meet their SPDES Permit requirements consistently for a certain period of time. So, for that time period the new plants are labeled as "not in steady-state" plants.

During 2015, the Department, in coordination with NYSDEC, started formulating advanced enforcements. One of the assignments was the modification of SPDES Permit requirements in accordance with the STP operating conditions. The intent was to cooperate with the treatment plant owners during the period of construction and/or repair of their facilities by assigning temporary permit conditions in order to streamline the permit violations and keep track of the non-compliance status more efficiently. For example, newly

constructed “NISS” facilities would be issued a temporary limit equivalent to their properties’ as-of-right density development and the permit would remain active until the facility’s daily flow attains 50% of the design flow, at which time, a permanent permit would be issued to the facilities. In the case of upgrade or major repairs or replacement of legacy plants, which may disrupt normal daily plant operations, the plant owners would be required to file an Order on Consent with the Department providing a time line to complete the required construction. Based on the timeline, the Department would assign a reasonable effluent total nitrogen limit possible to comply with during the construction period. The limit would remain in effect for the duration of the construction only in order to cooperate with the plant owners by preventing repeated violations of his SPDES Permit during the construction period.

A total of 478 inspections were performed and samples were collected at the time of inspections during 2015 by the Department. Well operated plants complying with their SPDES Permit were inspected bi-annually and high risk plants were inspected quarterly. The facilities were grouped in color coded categories based upon their ownership, level of performance and physical conditions. The analysis reports of the samples collected by the Department staff along with the NYSDEC Discharge Monitoring Reports (DMR) were evaluated.

TABLE I provides an account of the high risk facilities recorded by the department every year since 2011. Since 2012, the Department has been following the modified inspection program. The number of plants in the High Risk category in 2015 reduced about 32% compared to the previous year. Moreover, a gradual improvement in the overall performance level during the past five years can be seen on the table, substantiating the fact that the new risk based program and enhanced enforcement have been a success. Nine High Risk plants were moved to the Low Risk category during the year.

**TABLE I: Key Performance Indicators**

	2011	2012	2013	2014	2015
Number of High Risk Facilities	N/A	60	50	50	38
Total Nitrogen (All Tertiary STPs in Steady State) in mg/l	9.9	8.6	8.7	7.8	7.57
Percent of Tertiary STPs meeting NYS Discharge limits for Total Nitrogen (All Tertiary STPs in Steady State)	71.0%	79.6%	82.8%	85.0%	85.8%

TABLE II and III represent the statistics of the facilities in accordance with their color coded categories as well as their performance. As it can be seen on both tables, the overall averages of the effluent parameters were well below the SPDES limits:

TABLE II: Statistics of Tertiary Plants

Color	Owner-ship	Risk Level	No. of Plants		Average TN mg/L	Average TN mg/L (Low Risk Plants)	Overall Average TN mg/L
			Total	In TN Average			
Blue	Municipal	Low	34	33*	5.2	6.0	7.57
Green	Private	Low	113	113	6.3		
Red	Private	High	24	20**	18.6	--	
Orange	Private	Seasonal	3	3	7.9	--	

\* The number excludes **one** industrial plant.

\*\* The number excludes **four** plants not-in-steady-state with a yearly average of 18.6 mg/l of TN.

The average total nitrogen concentration for all the 169 tertiary treatment plants operating in steady state condition which includes the plants undergoing major renovations was **7.57 mg/L**, less than the previous year. Further, the average total nitrogen for all the 146 “Low Risk” plants was **only 6.0 mg/L**, well below their SPDES Permit limit of 10 mg/L, even after one of the coldest winters the County experienced in 2015.

TABLE III: Statistics of Secondary Plants

Color	Blue	Green	Red	Orange*	Overall Average BOD <sub>5</sub> , mg/L (w/o seasonal plants)	Overall Average TSS, mg/L (w/o seasonal plants)
Ownership	Municipal	Private	Private	Private		
Risk Level	Low	Low	High	High		
No. of Plants	6	1	14	2	22.9	26.8
Average BOD <sub>5</sub> , mg/l	9.4	7.7	29.8	7.7		
Average TSS, mg/l	17.9	9.2	31.9	10.9		

\*These plants have already been included with TABLE II.

TABLE III indicates that the overall average BOD<sub>5</sub> and SS of all the 21 secondary plants (excluding the seasonal plants) operating in steady state condition was 22.9 mg/L and 26.8 mg/L respectively, within the NYSDEC permit limit of 30 mg/L. Please note that the TSS average of the high risk plants deviated only 6.3% from the NYSDEC permit limits. Almost all the high risk (Red) facilities were under Order on Consent with the Department. Some of the facilities were under construction of replacement systems. The applications for a replacement system for the rest of the facilities were under review of the Department.

All the 14 treatment plants that discharged to surface waters met the required fecal coliform limit of <800 MPN/100 ml with only a few deviations. The Appendix of this report provides sampling analyses data for 2015 for all the treatment plants in accordance with the color coded categories described in TABLE II and TABLE III above. An additional data page showing performance of the ‘Appendix A’ Systems (less than 15,000 gallon capacity) in 2015 has also been included which reveals that the plants in that category in steady state had 82% compliance rate.

## STP Program Overview

### Purpose

The residents of Suffolk County rely upon groundwater for their drinking water needs. The groundwater is contained within a sole source aquifer that extends throughout Long Island. For this reason it is extremely important that the quality of the aquifer remain as pristine and pure as possible. Every effort must be made to prevent this natural resource from being polluted.

Suffolk County has a population of approximately 1.5 million and much of the wastewater generated by this population is discharged back into the aquifer. One potential pollutant contained within the wastewater is nitrogen. The Suffolk County Sanitary Code limits building density throughout the region as one method of limiting the detrimental effects of nitrogen from human sources to our aquifer. Another method of limiting nitrogen is by mandating an on-site sewage treatment plant when a proposed project exceeds the allowable population density of the parcel selected for the project. Approximately 70 – 75% of the County's population is served by conventional on-site sewage disposal systems consisting of septic tanks and leaching pools. The remaining 25 – 30% of the population is served by sewage treatment plants.

In 2015 there were 195 STPs in operation in Suffolk County. Among those, 174 were tertiary plants (capable of removing nitrogen from the effluent stream to meet a discharge limit of 10 mg/l). 21 facilities were secondary plants (capable of reducing BOD<sub>5</sub> and SS only to meet a discharge limit of 30 mg/L for each component in accordance with their SPDES Permit). Of the existing tertiary facilities, 4 plants were not in steady-state and one was an industrial plant, making the total number of tertiary plants 169 for consideration in the performance average. The Department requires installation of monitoring wells at each sewage treatment facility that discharges to groundwater in order to detect any impacts on the groundwater in the area by the discharge of the effluent.

All 195 treatment plants had a discharge limitation range of 5.5 – 8.5 for pH. Furthermore, facilities that discharged to surface water were subjected to a total fecal coliform standard that varies upon location, but is generally within the range 200 – 800 MPN/100 ml. There were 14 facilities that discharged to surface waters and met the aforementioned coliform limitations.

### Program Aspects

The Department's Bureau of Sewage Treatment Plant is authorized by NYSDEC to issue SPDES Permits and regulate all the sewage treatment plants in the County. In 2015, the Department was tasked as a Responsible Management Entity to facilitate development and use of innovative/alternative onsite wastewater treatment systems (I/A OWTS). These systems are not classified as STP's and are not subject to the State's SPDES requirements. They are designed to treat sewage to below 19 mg/L TN. They will act as an environmental conservation and public health protection measure for properties which cannot be served by community sewer systems now or in the near future. Note that the status and progress of the County's I/A OWTS program is included in an annual report that is separate from this STP report.

The goal of the STP Program is to ensure that the overall annual rolling average of TN concentration of all the tertiary plants operating in Suffolk County is maintained at or below 10 mg/L and the overall annual rolling average for BOD<sub>5</sub> and SS of all the tertiary and secondary plants remain at or below 30 mg/L and in strict compliance with their SPDES Permit requirements. A number of various activities were formulated in

order to achieve this goal and the mechanism has proven to be effective, as the annual reports of the last several years show gradual improvement and advancement towards the goal.

These activities may be categorized as follows:

- Engineering
- Inspection
- Clerical

Engineering Activities: The following responsibilities are performed:

- Issuance of SPDES Permits.
- Approval of applications for new construction - Approval involves review of engineering reports, detail design plans and specifications, and shop drawings for equipment for the proposed treatment plant. Also, review of site plans for sewage collection and water distribution systems, water design report, and preparation of other pertinent paperwork.
- Approval of applications for repair/upgrade/replacement of existing plants – Approval involves review of engineering report, detail design plans and specifications, and shop drawings for equipment.
- Approval of applications for municipal sewer extension – Approval involves review of engineering report, detail design plans and specifications in coordination with other municipalities as well as the County Sewer District.
- Inspection of construction at various phases.
- Inspection of equipment start-up prior to commencement of plant operation.
- Review and approval of final “as-built” plants and O & M (Operation and Maintenance) Manuals.
- Evaluation of new technologies for acceptance in Suffolk County.
- Involvement with various studies, for example, OSDS Study, Sewer Study, etc.
- Discuss sampling analyses data with the inspectors.

Inspection: The responsibilities involve the following:

- Bi-Annual inspection of each of the 195 plants.
- Samples are collected at the time of inspection.
- Bi-Annual re-inspection of the plants determined to be of high risk.
- Preparation of violation notices for underperforming facilities or facilities with deteriorating physical conditions.
- Inspection of the required repairs to bring the non-conforming facilities into compliance.
- Emergency inspections.
- Preparation of Orders on Consent for consistently non-conforming facilities.
- Review of sampling analyses reports and monthly Discharge Monitoring Reports (DMRs) furnished by the plant operators.
- Updating SPDES Database.
- Updating records of Capital Fund and Maintenance Fund for each treatment plant.

Clerical: The responsibilities involve the following:

- Input data from analyses reports and DMRs.
- Process SPDES Permits.

- Follow-up of violation notices sent by inspectors.
- Keeping track of submission deadlines for facilities with Order on Consent.
- Assisting inspectors in preparation and execution of Order on Consent.
- Maintaining updated status of Letters of Credit.

### STP Program Description

#### History

The STP Program was organized in 1998 in response to the NYSDEC Regulations that required all the existing facilities that were discharging sanitary wastewater in excess of 30,000 gallons per day to groundwater and new STPs to strictly comply with their nitrogen removal standards. The requirement caused proliferation of sewage treatment facilities in Suffolk County necessitating management and control of the performance of these facilities to protect the quality of groundwater from deterioration as most of the treatment plants discharged treated wastewater into the ground. The Department assigned two NYS certified wastewater treatment plant operators to work under the supervision of a NYS licensed engineer specialized in sewage treatment plant design and operation. A set of criteria was formulated based on experience and good engineering practice. The inspectors utilized these criteria to evaluate each STP's performance and physical condition. The program commenced quarterly inspection of all the STPs.

In April 2008, a policy involving more stringent enforcement was enacted. The policy requires a legal action for any unsatisfactory conditions noted at a sewage treatment facility at the time of an inspection. This legal action involves monetary penalties for the first time violation and doubling the dollar amount for each repeated violation. Furthermore, the policy requires issuance of an Order on Consent (OOC) for any facility in need of a substantial upgrade involving considerable construction time and funds. The purpose of the OOC was to organize the required construction within a fixed time frame in order to bring a failing treatment facility into compliance without unnecessary delays.

Suffolk County receives partial reimbursement in the amount of \$149,225 from the NYSDEC for inspection of the treatment plants per an existing contract between the Department and NYSDEC. The Department is responsible for inspecting all the 195 STPs, while only 156 private plants fall under the Department's jurisdiction. The rest of the 39 plants are municipal and are regulated by NYSDEC under their jurisdiction.

In 2012, the inspection program was restructured with the inception of the "Risk Based Inspection Program". The new inspection program instituted inspection and sampling of each of the well operated treatment facilities bi-annually and all the underperforming or "high risk" facilities four times a year. Since 2012, the Department has been following the modified program. According to the new plan, all the facilities are inspected during January, February March and April. During May and June, only the "High Risk" facilities are re-inspected. The schedule then repeats for the second half of the year. All the facilities are categorized into three color coded groups as shown in the following table:

**TABLE IV**

<b>Group</b>	<b>Facility Description</b>	<b>Risk Level</b>	<b>Yearly Inspections</b>
Blue	Municipal, Industrial and DPW operated plants. Enforcement is under NYDEC's Jurisdiction	Low	2
Green	Privately owned plants meeting SPDES Permit	Low	2
Red	Privately owned plants not in steady state and/or not meeting SPDES Permit	High	4

The following table further categorizes the Red group based on the associated issues. Please note that the nomenclature for the “issue type” has been modified in this report.

TABLE V

Issue	Description
UPG	Facility is currently under Order on Consent
VC	Facility is currently under Voluntary Compliance Agreement
ETP	Facility does not consistently comply with the conditions of its SPDES Permit
NISS	Plant is not yet in steady state.
ICD	DMR Data are inconsistent with SCDHS lab data

A reader must refer to the above table while going through the sample results for 2015 provided in the appendix.

The Department receives monthly NYSDEC Discharge Monitoring Reports (DMR). The STP staff review the DMR data along with the analysis report of samples collected by the staff during inspection of the treatment facilities. Based on the evaluation of this data, the level of performance of each facility is determined. In order to keep all the facilities in strict compliance with their SPDES Permit requirements, since 2013, the Department has been formulating various methods for detecting the non-complying facilities and maintaining the time for the remedial work within a strict time frame in order to avoid unnecessary delays in resolving operational and/or equipment issues.

In 2015, the Department in conjunction with NYSDEC started formulating some legal enhancements for convenience of tracking each facility’s status of performance as well as providing the facilities’ with more comprehensive compliance strategy which are clarified in the following paragraphs.

Enforcement Actions for Treatment Plants (ETP): The Department will evaluate all DMR reported values for exceedances. Based on the following criteria, if any exceedances are detected, the Department will issue a Notice of Violation to the owner of a treatment plant which may incur monetary penalties:

- If the 6-month rolling average of total nitrogen (TN) exceeds 10 mg/L and/or 6-month rolling average of BOD or Total Suspended Solids (TSS) exceeds 30 mg/L.
- If the TN, BOD or TSS exceedance is 40% more than the permit limit (i.e., more than 14 mg/L for TN and more than 42 mg/L for BOD or TSS) for more than once, within two consecutive quarters.
- If TN, BOD or TSS exceeds the permit limit on four or more occasions within two consecutive quarters.

A fineable event will result in a \$2,000 fine which will be posted as a Commissioner’s Order to rectify. Repeat violations within 2 consecutive review quarters will carry a doubled fine (\$4,000). Only one fine for a SPDES violation can be levied in any given month.

This enhanced program has three means of emphasizing importance of taking corrective actions immediately when a treatment plant experiences structural and operational issues:

- Fines can be reissued on a monthly basis.
- Fines will escalate for chronic violators.
- Violation notices will be written for cases with one violation, or multiple marginal violations.



“Not-in-Steady State” (NISS) STPs: A newly constructed STP normally requires 3 to 6 months of operation to achieve “steady state” condition when biological microorganism communities are sufficiently cultivated and acclimated to facilitate proper wastewater treatment. A minimum flow threshold (typically 50% of design) is necessary to achieve this condition and a facility is labeled as “Not-in-Steady-State” (NISS) until this condition is achieved. It is expected that a facility will not be in compliance with its SPDES Permit limits until it attains the steady state conditions.

In order to avoid enforcement actions and unnecessarily protracted NISS periods, SCDHS has formalized a policy (Guidance Memorandum No. 33) in cooperation with NYSDEC for NISS plants. According to the aforementioned policy, special permit conditions will apply to NISS plants to avoid unacceptable impacts. Further, STPs will no longer be considered NISS, if any of the following criteria is met:

- If the average daily discharge to a plant exceeds 50% of the design flow,
- If the effluent parameters do not exceed a plant’s SPDES permit limits, or,
- If a 3-year period has passed after an application received an approval for construction, unless, the approval was extended once on showing good cause.

A new permit will be reissued as soon as a plant achieves steady state condition.

STPs on Order on Consent: When an existing facility requires a major upgrade or a replacement, the Department requires the owner of the facility to file an Order on Consent (OOC) with the Department. The primary objective of an OOC is to strategically organize the construction work in order to complete every task in a timely manner and maintain a constricted time frame to avoid unnecessary delays in the construction. Depending on the site conditions, the daily operations at the existing facility may be affected by the construction and may result in a non-compliance with the facility’s SPDES Permit.

In order to avoid continuous permit violations during the construction, SCDHS in consultation with NYSDEC formalized a method, whereby, interim limits for the effluent parameters would be indicated on the OOC on a case-by-case basis pursuant to a review of the upgrade/replacement design plans by SCDHS. The interim limits will no longer be valid upon successful operation of the refurbished/replaced plant for three (3) months after completion of construction and the plant will revert to its original SPDES Permit.

In order to handle all the paperwork associated with the inspections more effectively and efficiently, the Department generates inspection follow up letters that outline any specific deficiencies noted during inspections. Several need-based form letters were composed between 2013 and 2015 in order to streamline this process, making it a simple and less time consuming task for Department staff. The Department has been using these form letters to inform STP owners of the outcome of every routine inspection. If any deficiencies are detected, a time frame is specified in the letter requiring the owner to rectify the issues in a timely manner. The repairs required are tracked by the STP inspectors and under the Department’s “Zero Tolerance Policy”, legal actions are generated if not corrected in a timely manner. This may incur monetary penalties against the owner of a sewage treatment and/or industrial facility.

A new full time assistant engineer was employed in 2015 for handling the work load so that review of applications can be performed in a timelier manner.

The Suffolk County STP Notification Law enacted in June, 2013, has proven to be extremely helpful in tracking incidents involving discharge of untreated or partially treated wastewater into the ground and/or wastewater overflow that occurred at a treatment facility. The notification law was formulated to provide all the necessary information such as amount of discharge, type of sewage (treated, untreated, or partially

treated), date, time, etc. The law enables the Department and NYSDEC to ensure that proper clean up and corrective measures were implemented as promptly as practical, minimizing contamination of the surrounding area of the site where the incident took place.

New Initiatives 2016

In order to handle the paper trail associated with effective operation of the SPDES Program, the Department will continue to modify its SPDES database to enable automatic generation of inspection follow-up letters, notifications, legal paperwork, etc. This will also alleviate some of the clerical work load.

**Sample Results for 2015**

Effluent data from all the STPs in Suffolk County are evaluated to determine compliance with their SPDES permit conditions. Tertiary plants that discharge to groundwater are subjected to limitations for TN, BOD<sub>5</sub>, SS, and pH. Secondary plants discharging to groundwater have limitations for BOD<sub>5</sub>, SS and pH. The plants that discharge to surface water are subjected to an additional limitation for Fecal Coliform. It must be noted that some plants have, within their SPDES Permits, varying limitations for BOD and SS depending on different calculated averages - 7 day, 30 day or 6 hr. Likewise some tertiary plants have varying limits for total nitrogen depending on calculated averages - 7 day, 30 day and pounds of nitrogen. For the Department’s enforcement work, 30 day monthly average of BOD, SS and nitrogen is used. Table VI lists the aforementioned parameters and the corresponding limits:

TABLE VI

Parameter	TN	BOD <sub>5</sub>	SS	Fecal Coliform	pH
Limit/Range	10 mg/L	30 mg/L	30 mg/L	800 MPN/100 ml	5.5 to 8.5 S.U.

In 2015, all of the active plants in Suffolk County were inspected and sampled a minimum of 2 times in a 12 month period. 50 plants which were considered to be high risk at the end of 2014 were inspected 3 or 4 times in 2015. Additionally, some low risk STPs were re-inspected based on deficiencies during previous inspection and/or inconsistencies between DMR data and the data from analysis of samples collected by the Department during routine inspections. A total of 478 inspections were performed and over 2000 sample parameters were analyzed. The parameters included total nitrogen, BOD<sub>5</sub>, SS, total and fecal coliform and pH. All of the samples collected for analysis by the Department staff were grab samples. Samples analyzed for DMR were collected by the treatment plant representatives. All the samples were collected prior to discharging into the groundwater or surface water. As indicated previously, there were some treatment facilities that had influent flow well below their permitted flow. This was due to the low occupancy of the communities they served and hence a low daily discharge into their systems causing difficulty in meeting their SPDES discharge standards. The Department classified these plants as NISS.

The results are displayed in Appendix A. Equipment failure at any facility and/or operational transients can negatively affect the reported numbers by skewing the average higher. While reviewing the averages it must be kept in mind that Suffolk County never eliminates transients from their calculations.

The following table shows average effluent data for the color coded categories for 2015 under the “Risk Based Inspection Program”:

TABLE VII

Effluent Parameter	Limit (mg/L)	Blue (Municipal, Low Risk) (mg/L)	Green (Private, Low Risk) (mg/L)	Red (All High Risk) (mg/L)	Orange (Seasonal, High Risk) (mg/L)	Average (mg/L)
TN	10	5.2	6.3	18.6	7.9	7.57
BOD <sub>5</sub>	30	9.4	7.7	29.8	7.7	22.9
SS	30	17.9	9.2	31.9	10.9	26.8

### **Facility Status for 2015**

In order to ensure adequate operation of all the sewage treatment plants located within the County, Suffolk County Department of Health Services, in accordance with the Environmental Protection Agency and the State Department of Environmental Conservation (NYSDEC) has adopted the State Pollutant Discharge Elimination System (SPDES) Permit Program. This program has been operating for the past 40+ years and has proven to be effective in monitoring and overseeing all sewage treatment plants. Under this program, every sewage treatment plant must obtain a SPDES Permit prior to commencing operation in Suffolk County. In accordance with the terms and conditions of the Permit, facilities are to be under the responsible supervision of a certified New York State operator and meet certain effluent discharge standards. These facilities are subject to inspections and samplings performed through the Suffolk County Department of Health Services and other agencies.

In addition to the SPDES program, Suffolk County promulgated Article 7 which regulates sewage and industrial waste treatment plants. This health code regulates facility operation and maintenance and is effective as an enforcement tool in keeping the wastewater facilities well managed and compliant.

All the operators of sewage treatment plants in New York State are required by the facility SPDES permit to sample and monitor the influent, effluent, process tank mixture and test wells and record the results in a DMR. The DMR monthly data is required to be submitted to the SCDHS and NYSDEC for review and any permit deviations must be explained within the reports. Any DMR deviations are evaluated by the NYSDEC and SCDHS for possible legal action.

When inspections of the plants indicate violations, especially on a follow up basis, legal action is initiated against the owner of the facility. Legal action is enforced through fines and orders on consent (OOC). A fine involves a monetary penalty up to \$2,000/day. OOCs are issued for plants requiring substantial repairs/upgrades that involve considerable construction time and funding. A consent order limits completion of construction of the required repairs/upgrades/replacement to a fixed time frame. There have been a total of 22 legal actions including 7 consent orders issued against the sewage treatment plants in 2015.

Currently, 20 tertiary treatment plants are in the process of undergoing upgrades and repairs with the goal to bring these facilities into compliance. A vast majority of these plants are expected to complete their renovations during 2016. Out of the total 21 existing secondary plants, 16 plants are in the process of adding a nitrogen removal system to their process. Most of these facilities are expected to complete their upgrades before the end of 2017. In 2015, two secondary plants completed their conversions to tertiary facilities.

Since many plants in Suffolk County have been operating in the range of 25 to 40 years, a few plants are always under repair or in need of replacement. It must be noted that the life expectancy of a plant is approximately 30 years and it may take up to 2 years to replace an aging plant.

## **Conclusion**

During 2015 the Office of Wastewater Management executed 478 inspections and sampled the effluent leaving the 195 STPs in the County during each of these inspections. Along with the corresponding data from these sampling events, data that were reported on New York State Department of Environmental Conservation (NYSDEC) Discharge Monitoring Reports (DMR) were analyzed. The average Total Nitrogen of all the 146 year-round Low Risk tertiary facilities was 6.0 mg/l, slightly above 2014's average because of one of the coldest winters on record in 2015; however, the average Total Nitrogen for all the 169 tertiary plants including the "high risk" plants in steady state was 7.57 mg/l which is slightly below the 2014 average. Based on the evaluation of the data it can be said that the technologies currently utilized in Suffolk County have the potentiality of effectively treating wastewater and thereby, protecting the County's aquifer.

It is important to note that regulations limiting nitrogen loading from sewage treatment plants are more restrictive than those permitted for as-of-right developments following the requirements of Article 6 of the Suffolk County Sanitary Code. Therefore, sewage treatment plants that serve communities in Suffolk County typically contribute less nitrogen loading per housing unit to groundwater than does a residential unit served by a conventional sewage disposal system. The Department has noticed that even when "high risk" plants were undergoing major repairs, in most cases, they typically discharged total nitrogen of less than 19 mg/l in the effluent which is the maximum limit established for Innovative/Alternative System currently being studied by the Department. The Department's requirements for redundancy in the STP designs made it possible to keep their treatment processes active during construction, although with lesser efficiency, and thereby, keeping the TN overages as low as practical. Therefore, treatment plants are more effective in protecting the drinking water of Suffolk County.

The plants that are required to provide secondary treatment are performing equally well. Sampling has shown that the overall effluent concentrations for BOD<sub>5</sub> averaged 22.9 mg/L and suspended solids averaged 26.8 mg/L for all the secondary plants; again, a miniscule increment over 2014 averages because of the harsh winter in 2015, but below the discharge limits. The discharge limit for suspended solids and for BOD<sub>5</sub> is 30 mg/L. In addition, all the 14 treatment plants that discharge to surface waters met the required fecal coliform effluent guideline of <800 MPN/100 ml with only a few excursions.

The plants utilizing newer technologies such as SBR, modular aeration, BESST, and MBR have been showing steady performance and increased efficiency in treating wastewater compared to the older denitrification plants. As the older denitrification plants are upgraded, it is expected that the overall effluent results will show noticeable improvement of the current numbers.

It is noteworthy that in 2015 the number of facilities which complied with the discharge limits of their SPDES Permit increased to 161 from 145 in 2014. 9 High Risk plants were moved to the Low Risk category. The 38 plants (including 4 plants not in steady state) that remained in the High Risk category were either under construction or were being reviewed by the Department. Table VIII provides data pertaining to the number of inspections performed over the last four (5) years, the number of facilities considered as "High Risk" during those years and the corresponding average total nitrogen. Based on these numbers, it appears that the new risk based program has been a success.

TABLE VIII

	2011	2012	2013	2014	2015
Inspections Required	768 (Quarterly)	633 (new program as of July 2012)	495 (fully implemented program)	496 (fully implemented program)	478 (fully implemented Program)
Inspections Performed	768	633	495	496	478
Number of High Risk Facilities	N/A	60	50	50	38
Average TN in mg/l	9.9	8.6	8.7	7.8	7.57

TABLE VIII substantiates that under the enhanced enforcement program, the performances of the plants are improving steadily and the plants' owners are cooperating in successfully operating their facilities as the number of high risk plants reduced considerably since 2012, almost 37%. From the data, it is apparent that when treatment plants are operated and maintained properly, they can generate effluent quality below drinking water standards. Overall, these results show that the surface waters and the groundwater of Suffolk County are receiving treatment plant discharges that are well processed and mostly meeting effluent limitations.

The effluent total nitrogen data reveal that the overall average of 2015's effluent samples improved slightly from that of the previous year's irrespective of the unusually cold winter conditions in 2015, but the list of low risk plant grew considerably. It is important to note here, that the outside plants in Suffolk County are designed for an ambient temperature of 10°C and the enclosed plants for 15°C. Therefore, an ambient temperature in the single digit for several days at a stretch, which was the case in 2015, negatively affected the plants' performances significantly resulting in overages in effluent total nitrogen even for the plants that are otherwise always well below the permitted limits. Therefore, the overall steady and improved performance was due to the Department's thorough and routine inspections, follow-up inspection letters and enhanced enforcement program predicated on plants' level of performance, physical and operating conditions of plants' equipment, and facility maintenance. It is anticipated that the Department's wastewater management program and policies will continue to keep the facilities' upkeep and operating conditions at the desired level so that the Department's goal of achieving overall total nitrogen in the range of 5 to 6 mg/l will be reached in the coming year.

# **Appendix**

# **SAMPLING ANALYSES DATA**

**For TN**

2015 SCDHS Inspection Data and Monthly DMR Data  
Municipal/Industrial/DPW Total Nitrogen Plants

Sewage Treatment Name	SPDES #	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	SCQ1	SCQ2	SCQ3	SCQ4	15 Avg	14 Avg	13 Avg
BNL	NY-0005835	11.0	8.0	9.0	4.0	6.0	5.0	5.0	2.0	5.0	5.0	4.0	7.0	8.2		3.5		5.9	6.5	6.8
Brookhaven R&D	NY-0277827	15.2	8.3	9.0	4.6	4.1	2.1	4.1	3.6	3.9	2.8	4.8	2.9	39.7		4.7		7.8		
Greenport Village	NY-0020079	4.8	10.3	12.1	4.0	3.5	2.4	3.0	2.0	3.3	3.6	3.9	2.9	3.6		1.9		4.4	3.4	4.0
Huntington Village	NY-0021342	3.4	2.9	5.8	4.6	6.0	2.8	2.5	3.3	2.2	2.6	1.2	3.1	1.7		1.6		3.1	3.6	3.6
IRS	NY-0079413	23.2	10.4	4.8	4.4	3.3	3.5	5.2	2.2	2.4	4.3	2.4	1.8	19.0		10.9		7.0	9.0	7.0
Newsday	NY-0136751	4.5	2.4	3.3	2.8	3.7	4.7	5.8	3.8	9.5	3.9	4.0	4.7	4.0		0.5		4.1	5.2	4.5
Northport VA	NY-0069159	2.8	5.0	9.4	4.0	33.0	19.6	18.0	18.0	21.0	21.0	15.0	18.9	14.8		16.8		15.5	6.0	6.1
Northport Village	NY-0024881	4.0	19.0	4.7	14.0	3.6	0.5	3.0	7.0	41.1	1.1	4.0	2.4	4.3		6.3		8.2	7.0	7.7
Patchogue Village	NY-0023922	3.4	3.2	4.7	4.5	3.1	4.4	3.0	2.5	2.5	3.0	2.3	1.2	2.6		2.1		3.0	3.6	4.2
Sag Harbor	NY-0028908	5.5	6.8	10.3	6.9	4.0	3.6	3.1	9.9	9.2	1.6	1.2	8.3	4.0		5.8		5.7	3.6	6.7
SCC Riverhead	NY-0078131	6.1	17.9	13.0	9.3	6.6	4.6	3.8	3.6	3.4	4.5	4.4	3.6	7.6		1.7		6.4	6.6	4.7
SCC Selden	NY-0079481	4.3	25.7	3.7	5.4	4.5	1.9	3.0	3.5	5.7	2.2	2.6	1.1	2.0		2.0		4.8	2.8	3.7
SD # 1 Port Jefferson	NY-0021750	4.0	5.0	4.0	4.0	5.0	4.0	5.0	5.0	5.0	9.0	5.0	4.0	1.2		2.5		4.5	3.8	4.4
SD # 12 Birchwood	NY-0079511	4.3	6.8	6.4	6.3	7.1	3.9	4.2	5.5	4.5	5.6	4.0	4.8	6.2		5.0		5.3	5.2	4.5
SD # 13 Wind Watch	NY-0077429	10.0	9.7	13.4	3.6	4.6	3.1	4.3	4.9	2.6	2.4	3.7	3.7	6.5		3.4		5.4	6.0	5.2
SD # 14 Parkland	NY-0065358	3.3	4.5	4.0	2.8	4.2	5.9	3.7	6.6	3.0	2.9	2.9	3.1	3.5		1.6		3.7	4.5	3.2
SD # 15 Nob Hill	NY-0077330	3.4	10.5	3.2	3.8	3.6	3.0	2.5	2.2	2.9	3.1	2.9	4.0	4.2		2.0		3.7	5.9	5.6
SD # 18S Hauppauge Industrial Park	NY-0136964	9.3	15.3	6.8	7.5	5.2	4.8	3.6	3.1	3.3	6.3	2.0	4.6	7.4		3.5		5.9	5.9	20.8
SD # 2 Tallmadge	NY-0221678	2.2	6.1	5.4	9.6	5.2	4.4	2.8	4.6	4.2	5.6	2.7	4.3	4.4		2.6		4.6	4.3	4.1
SD # 20W Leisure Village	NY-0079359	5.0	4.5	4.4	4.0	5.7	4.3	5.1	4.1	6.4	3.3	2.9	3.0	2.6		3.0		4.2	4.2	6.9
SD # 21 SUNY Stony Brook	NY-0206644	1.8	5.0	0.5	0.5	0.5	2.5	2.0	3.0	3.0	5.0	1.9	1.7	3.5		0.9		2.3	4.3	5.0
SD # 22 Hauppauge County Center	NY-0066028	4.2	13.9	3.6	2.0	1.5	2.0	1.9	1.5	2.5	1.6	1.5	1.8	3.8		1.1		3.1	6.0	7.0
SD # 23 Coventry Manor	NY-0080667	5.5	6.2	6.0	4.1	5.1	5.9	4.0	4.0	3.4	4.4	4.4	4.5	2.9		3.0		4.5	5.6	6.4
SD # 28 Fairfield@St James	NY-0091081	6.4	8.5	3.7	3.8	4.7	6.6	2.5	4.7	3.2	4.4	2.0	28.0	2.8		3.0		6.0	7.8	7.9
SD # 5 Dix Hills	NY-0070033	3.4	5.5	5.7	5.5	3.2	2.8	2.8	2.6	4.1	4.7	2.1	3.2	3.3		1.1		3.6	4.2	4.0
SD # 6 Kings Park	NY-0023311	10.0	5.0	0.5	2.2	0.5	2.3	4.4	2.7	0.5	1.9	2.0	3.0	4.2		4.5		3.1	5.5	5.2
SD # 7 Twelve Pines	NY-0080683	11.7	17.5	16.5	20.1	10.5	3.8	4.1	3.0	3.6	4.1	3.6	2.0	3.4		1.5		7.5	6.4	4.1
SD # 7 Woodside	NY-0076988	12.9	5.0	3.8	3.1	8.2	9.5	6.2	5.7	6.5	4.8	4.3	7.6	2.5		5.7		6.1	4.5	5.4
SD # 9 College Park	NY-0065447	2.5	2.0	2.1	2.4	3.1	4.2	1.8	2.7	5.2	9.5	3.1	2.8	1.3		3.6		3.3	2.7	2.3
SD #11 Selden	NY-0079324	9.4	7.3	3.8	4.1	5.5	2.3	2.2	2.3	1.8	2.3	2.4	2.2	3.3		1.7		3.6	2.5	2.7
SD 20E Ridgehaven	NY-0226688	8.3	15.3	7.3	4.8	4.7	3.5	4.2	3.5	4.6	4.8	5.0	4.6	1.8		3.9		5.5	4.7	7.0
SD Gabreski Airport	NY-0226971	1.1	N/D	1.5	3.3	1.9	2.5	1.7	3.8	1.0	2.0	1.1	2.2	0.7		3.5		2.0	4.8	5.0
SD Yaphank County Center	NY-0085693	8.6	11.5	9.6	10.6	11.3	10.2	5.8	6.9	8.9	7.1	6.1	6.0	11.6		9.7		8.9	7.5	7.0



2015 SCDHS Inspection Data and Monthly DMR Data  
Municipal/Industrial/DPW Total Nitrogen Plants

Sewage Treatment Name	SPDES #	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	SCQ1	SCQ2	SCQ3	SCQ4	15 Avg	14 Avg	13 Avg				
Crescent Duck Farm monitor only	NY-0005304	Industrial: Under NYSDEC Review												25.3										
																		<b>AVERAGE:</b>				<b>5.2</b>	<b>5.1</b>	<b>5.7</b>

NISS

Total Facilities: 34

Facilities in Average: 33

Facilities Omitted From Average: 1

2015 SCDHS Inspection Data and Monthly DMR Data  
Low Risk Total Nitrogen Plants

Sewage Treatment Name	SPDES #	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	SC#1	SC#2	SC#3	SC#4	2015 AVG	2014 Avg	2013 Avg
Affinity Oakwood Care Center	NY-0253120	10.4	11.2	9.3	2.1	2.9	6.7	4.9	2.1	2.6	4.8	10.6	5.0	1.6		21.4		6.8	3.6	6.0
Apex Rehab. Birchwood NH	NY-0070297	3.7	3.8	2.5	6.2	2.8	4.5	6.4	11.0	2.6	10.0	7.3	9.8	12.3		2.0		6.1	6.8	6.9
Artist Lake	NY-0079502	7.0	4.0	3.0	6.0	5.0	6.0	2.0	1.0	4.0	2.0	6.0	5.0	0.7		1.3		3.8	3.7	5.2
Avery	NY-0136930	7.2	9.4	7.2	7.2	3.1	5.4	4.8	4.5	4.7	4.6	4.3	5.9	6.7		2.5		5.5	5.7	7.2
Bellhaven Nursing Home	NY-0211826	16.5	14.8	16.4	17.4	16.9	10.0	12.9	6.7	4.9	6.7	8.2	8.0	24.6	13.5	8.5	7.8	12.1	17.5	11.5
Birchwood Glen	NY-0065463	13.1	15.2	14.6	10.0	10.0	5.7	7.4	1.5	1.5	1.2	1.8	3.0	12.0	8.6	1.3	8.7	7.2	9.5	8.3
Birchwood on the Green	NY-0077283	8.1	3.3	3.5	8.3	5.0	1.7	5.3	3.4	1.7	1.5	1.6	5.9	10.1		1.1		4.3	3.9	2.8
Blue Ridge	NY-0079448	3.2	3.1	1.9	2.8	3.9	2.4	2.3	3.7	2.0	4.5	4.6	2.6	0.9		3.1		2.9	3.3	4.5
Bretton Woods	NY-0065366	10.9	14.6	3.1	4.0	3.8	3.2	3.2	5.5	7.1	8.8	4.8	8.1	5.2		6.6		6.3	7.0	5.5
Broadway Knolls	NY-0254495	4.8	10.9	8.0	4.3	3.5	4.3	3.0	N/D	4.1	2.6	4.8	1.9	2.4		4.6		4.5	2.9	12.4
Broadway West	NY-0227056	3.0	5.0	4.0	7.0	4.0	6.0	3.0	1.0	4.0	11.0	4.0	4.0	3.1		0.9		4.3	4.9	4.5
Brookhaven Hospital	NY-0074730	8.2	11.0	10.6	5.1	7.3	3.5	1.7	12.2	18.0	23.0	4.3	4.2	3.3		11.6		8.9	8.6	4.1
Browning Hotel(Marriott Courtyard)	NY-0253162	4.2	14.9	4.6	4.3	10.5	4.2	9.9	2.2	2.7	1.4	2.1	3.3	1.3		2.0		4.8	3.4	4.6
Cabrini Gardens	NY-0253502	6.0	9.0	4.0	6.0	5.0	3.0	2.0	9.0	5.0	4.0	7.0	2.0	7.1		8.5		5.5	5.0	15.9
Cenacle Manor	NY-0237736	3.7	4.5	4.8	1.9	3.0	2.8	3.0	3.2	1.5	2.0	2.5	2.7	2.1		4.1		3.0	3.3	4.1
Chatham Holtsville RI UtilityHolt Hote	NY-0253430	5.7	3.4	3.7	6.3	3.5	3.5	5.7	8.4	10.0	10.8	4.3	2.3	1.1		3.4		5.2	5.2	4.5
Chelmsford Weald Condo	NY-0254452	6.1	7.4	14.2	4.1	8.2	6.7	3.4	2.7	9.6	9.1	6.3	10.0	2.0		8.8		7.0	4.7	5.1
Country View Estates	NY-0238848	4.7	5.2	3.6	9.2	3.2	1.3	1.9	0.8	1.9	3.2	1.4	1.4	27.0		29.5		6.7	36.9	33.6
Country View @ Smithtown	NY-0272906	7.0	3.0	3.0	4.0	6.0	3.0	3.0	2.0	5.0	12.0	6.0	5.0	4.0		11.2		5.3	4.4	4.1
Crowne Plaza Best Western	NY-0209597	4.7	2.9	11.5	15.0	17.5	17.9	8.0	4.9	6.5	1.6	9.0	1.9	23.6	9.5	3.2	1.4	8.7	11.5	5.3
Dowling	NY-0077356	3.4	2.7	3.0	4.9	10.7	8.0	1.7	7.3	7.0	0.2	6.0	4.0	4.1		4.5		4.8	2.4	2.4
DSW Plaza Loehmans Plaza	NY-0196363	7.0	11.0	4.0	5.0	5.0	3.0	4.0	3.0	4.0	3.0	7.0	10.9	11.6		3.8		5.9	5.0	5.2
Eagles walk	NY-0253286	8.0	4.0	5.0	7.0	7.0	4.0	3.0	3.0	3.0	8.0	8.0	5.0	7.3		0.3		5.2	4.7	5.0
Emerald Greens	NY-0077453	2.4	3.1	3.5	3.7	2.7	2.0	1.8	3.1	1.2	7.3	4.4	2.6	2.5		1.4		3.0	4.3	4.1
Encore Atlantic Shores BristolEstates	NY-0253537	2.5	2.7	4.4	3.0	2.2	4.9	3.3	6.2	4.4	9.8	9.3	8.1	14.4		6.0		5.8	2.8	4.9
Exit 63	NY-0253154	10.8	12.8	5.7	6.1	3.6	9.6	7.4	10.7	8.6	7.7	4.0	7.1	6.1		6.3		7.6	6.6	7.0
Fairfield @ Ronkonkoma	NY-0253545	4.4	8.9	6.8	1.3	7.6	4.4	2.9	4.3	1.3	3.5	2.6	3.3	44.7		27.6		8.8	6.1	7.9
Fairfield @ Selden	NY-0253081	5.5	3.7	6.2	1.6	1.8	6.2	2.7	1.6	3.7	2.9	1.8	2.6	32.0		5.2		5.5	4.3	6.2
Fairfield at Mastic	NY-0273490	5.4	11.5	8.2	7.2	4.4	6.0	4.8	4.1	7.5	9.4	9.7	4.9	27.5		13.1		8.8	8.3	9.7
Fairfield Inn by Marriott	NY-0254541	11.8	5.8	77.5	8.0	7.3	5.7	5.6	5.8	5.8	4.2	8.8	2.6	1.1		1.7		10.8	7.1	12.2
Fairfield Village (Groton)	NY-0074314	bod	4.4	5.4	1.9	1.2	4.1	2.4	3.6	4.5	1.7	3.5	3.5	1.6	3.1	3.7		3.2		
Fairfield Villas @ Medford	NY-0227323	13.3	11.6	21.3	3.4	4.3	11.9	1.7	1.4	2.6	4.9	2.0	0.8	38.1		6.0		8.8	7.6	6.8

2015 SCDHS Inspection Data and Monthly DMR Data  
Low Risk Total Nitrogen Plants

Sewage Treatment Name	SPDES #	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	SC#1	SC#2	SC#3	SC#4	2015 AVG	2014 Avg	2013 Avg
Fairway Manor	NY-0238406	13.4	20.2	7.3	4.3	9.2	3.7	8.7	6.1	8.0	10.5	3.3	8.3	3.8	7.4	8.9		8.2	15.4	26.0
Fox Meadows	NY-0196339	29.5	14.9	8.3	6.0	10.1	5.4	8.3	0.2	2.3	3.2	1.1	2.8	26.6		8.4		9.1	25.6	23.5
Greens at Half Hollow	NY-0068071	2.0	4.0	3.0	4.0	5.0	4.0	4.0	6.0	3.0	8.0	2.0	6.8	3.2		17.6		5.2	4.5	3.2
Greenview Commons	NY-0253227	5.5	9.0	4.2	6.7	5.0	5.9	3.4	2.9	7.5	9.2	8.1	3.6	9.0		8.9		6.3	5.6	10.3
Greenview Court	NY-0226254	11.1	11.7	12.2	7.0	2.0	7.9	6.4	1.8	5.4	9.1	3.2	6.0	11.1	8.9	14.8		7.9	11.6	13.6
Greenwood @ Oakdale	NY-0210382	1.5	5.8	10.6	14.0	6.3	3.1	3.9	1.9	0.8	2.0	1.9	12.4	25.4		12.7		7.3	6.4	7.1
Greenwood Village	NY-0194212	3.6	8.8	2.2	4.0	4.0	5.8	4.3	6.2	4.0	3.8	3.0	3.3	10.7		15.6		5.7	4.3	8.9
Gurwin Jewish Assisted Living	NY-0253111	5.3	3.3	3.7	7.8	3.7	5.0	10.6	8.5	4.0	5.6	4.9	3.0	9.3		7.4		5.9	3.7	2.8
Gurwin Jewish Geriatric ctr	NY-0197777	7.5	6.0	6.6	7.6	6.4	7.3	19.8	6.6	6.0	4.8	6.4	9.5	9.9		14.4		8.5	8.1	12.5
Hamptons center for Rehab and nursing	NY-0253138	1.4	1.5	4.5	1.6	1.7	1.1	2.6	2.8	0.7	1.9	2.3	2.3	1.8		3.1		2.1	1.8	3.3
Hawthorne (Concord) Village	NY-0077402	7.2	4.2	5.2	3.2	3.5	3.8	3.1	2.2	5.7	3.9	3.5	3.8	2.5		3.1		3.9	3.9	3.0
Heatherwood @ Holbrook	NY-0077372	5.5	7.0	5.6	7.8	4.1	11.5	5.6	8.1	2.2	8.3	7.0	7.0	7.8		4.2		6.6	8.1	9.8
Heatherwood @Lakeland	NY-0077321	4.2	12.8	9.4	6.1	20.0	5.4	3.2	3.0	1.9	2.4	3.0	3.7	17.5		7.6		7.2	6.1	7.9
Heritage Gardens	NY-0077348	5.0	4.0	2.3	10.3	8.1	7.8	1.3	3.0	5.0	1.6	6.0	5.2	10.1		8.6		5.6	6.5	
Hilton Gardens	NY-0253219	3.5	21.2	22.9	3.7	7.1	5.7	3.8	5.6	8.6	13.2	4.7	4.0	2.9		5.1		8.0	9.6	6.4
Holiday Inn Express	NY-0227285	29.7	7.7	2.5	12.2	8.2	5.7	4.0	4.0	4.9	10.6	8.1	3.5	13.5		3.6		8.4	9.6	3.9
Holiday Inn	NY-0080705	4.0	3.6	2.6	2.1	3.3	1.2	1.2	1.2	1.2	1.2	3.3	2.5	2.0		0.8		2.2	2.0	3.1
Homestead Village	NY-0079383	21.6	8.2	4.4	3.4	2.1	2.4	2.7	3.5	1.5	2.7	1.3	3.7	32.9	1.9	3.8		6.4	21.8	12.6
Inn @ East Winds	NY-0253421	2.0	4.0	7.0	5.0	5.0	5.0	4.0	6.0	6.0	5.0	5.0	7.0	0.1		1.9		4.5	3.6	3.4
Islandia Center	NY-0220493	1.2	2.4	14.6	13.6	2.1	2.9	1.2	5.4	1.2	12.9	1.8	1.2	6.1		1.0		4.8	5.2	4.1
Kensington Gardens/St James NH	NY-0074292	4.7	4.0	13.7	4.1	1.4	4.9	4.8	5.2	19.6	6.3	9.4	11.0	4.7		19.8		8.1	4.8	8.9
Lake Grove (Villages at Lake Grove)	NY-0254720	1.0	2.0	1.3	4.3	1.7	0.7	1.0	1.8	0.7	0.6	0.8	2.2	13.0		7.9		2.8	6.7	5.4
Lake Grove Apartments	NY-0079499	9.2	24.8	15.2	13.1	7.2	3.3	6.8	2.9	3.3	4.5	3.6	5.6	12.9	5.5	5.1		8.2	5.6	5.5
Lake Pointe	NY-0180548	16.6	3.7	4.1	13.3	2.4	19.3	2.9	38.9	2.9	2.4	1.7	4.6	8.8	2.6	8.3	8.3	8.8	14.1	22.9
Lakes @ Setauket	NY-0198323	6.1	2.6	3.5	3.2	3.4	3.4	11.4	2.7	2.9	4.4	8.5	3.6	3.7		2.3		4.4	5.4	8.3
Lakeview Woods Bayport	NY-0255386	6.0	5.7	11.9	3.3	6.6	2.9	2.0	3.5	0.9	2.1	1.5	2.8	5.9		9.4		4.6	5.5	7.4
Larkfield Gardens Atria	NY-0209325	0.9	2.9	5.0	10.3	2.9	2.3	1.2	2.4	0.9	0.6	0.3	3.7	20.9		8.0	6.3	4.6	6.0	5.0
Medford Hamlet Assisted Living	NY-0253511	6.0	4.1	3.3	5.2	4.2	3.1	2.1	2.3	4.4	8.1	4.7	3.9	2.7		3.3		4.1	5.6	5.7
Medford Ponds	NY-0254509	12.0	4.6	10.0	4.3	2.8	3.3	2.2	3.3	7.6	10.1	7.8	4.1	7.4		6.6		6.2	5.7	10.5
Mill Pond Estates	NY-0278432	8.3	8.6	29.3	6.3	7.6	5.3	5.0	8.6	7.1	5.5	5.7	5.6	19.2	16.8	13.3		10.1		
Nesconset ctr for Nursing	NY-0193470	56.1	44.9	33.6	6.3	48.1	5.1	4.0	4.4	9.3	2.5	5.9	3.8	49.0	2.6	6.5		18.8	20.5	15.8
Oak creek commons	NY-0272990	6.0	6.0	5.0	7.0	7.0	3.0	4.0	5.0	2.0	8.0	12.0	5.0	10.4	5.8	19.9		7.1	10.2	

2015 SCDHS Inspection Data and Monthly DMR Data  
Low Risk Total Nitrogen Plants

Sewage Treatment Name	SPDES #	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	SC#1	SC#2	SC#3	SC#4	2015 AVG	2014 Avg	2013 Avg
Oak Hollow	NY-0079456	13.3	5.2	4.8	4.4	10.6	5.2	3.0	5.3	7.7	2.9	4.8	3.6	12.8	11.3	5.2		6.7	6.7	5.1
Oak Ridge Hollow	NY-0273465	6.0	6.0	3.0	3.0	4.0	7.0	4.0	25.0	5.0	6.0	5.0	7.0	7.8	5.2	19.2		7.5		
Park Meadow STPCountry Pointe	NY-0253146	15.5	3.0	11.8	3.9	6.2	5.2	5.3	5.4	7.0	5.3	3.9	9.1	12.6		8.8		7.4	8.8	10.5
Patch Senior Conifer	NY-0253316	5.5	7.6	16.3	12.3	4.3	3.8	3.9	5.6	4.2	4.2	4.1	4.8	5.8		1.5		6.0	7.8	5.9
Paumanack Village	NY-0137065	3.1	8.0	7.7	4.6	12.8	5.2	4.8	4.5	5.1	4.6	2.9	5.3	26.6		14.5		7.8	6.4	9.2
Petite Fleur	NY-0220990	1.7	3.9	14.8	0.9	1.5	5.0	13.2	17.8	13.8	10.5	0.7	1.4	10.2		19.7		8.2	5.4	7.6
Pine Hills South Mirror Ponds	NY-0253308	3.6	5.1	8.2	7.0	3.9	5.5	5.2	5.3	3.7	3.0	3.3	3.2	4.9		3.4		4.7	6.1	5.7
Pinewood Gardens	NY-0254525	5.0	3.0	5.0	6.0	4.0	4.0	3.0	8.0	3.0	10.0	5.0	4.0	2.5		14.9		5.5	4.3	23.1
Preserves @ Connetquot	NY-0254479	4.0	5.0	5.0	7.0	7.0	6.0	3.0	2.0	4.0	7.0	9.0	3.0	9.8		9.1		5.8	4.3	6.7
Quail Run	NY-0065391	7.8	7.4	3.7	7.6	3.8	5.9	10.2	7.3	15.8	9.0	5.3	6.9	2.5		13.9		7.6	8.4	9.7
Residence Inn	NY-0266337	12.2	8.5	10.9	8.7	8.8	5.0	3.2	2.7	9.9	7.4	4.7	4.6	7.2		10.8		7.5	4.5	8.1
Ross Nursing Home	NY0285757	3.5	2.8	4.7	4.7	3.1	3.9	3.0	3.6	3.4	21.6	6.3	10.0	2.9		2.7		5.4	11.8	
Saddle Cove Apts.	NY-0253529	8.7	8.6	7.1	6.2	7.2	7.7	6.5	9.9	10.6	19.1	9.9	6.7	5.4	2.9	9.7		8.4	13.2	10.0
Sagamore Hills	NY-0065455	14.3	8.5	4.0	8.0	5.8	3.0	3.1	8.1	10.0	9.6	6.3	5.3	7.6		3.3		6.9	6.2	7.5
Saint Annes	NY-0266329	4.0	10.0	2.0	8.0	5.0	3.0	2.0	2.0	3.0	11.0	7.0	5.0	6.2		8.6		5.5	3.7	19.0
Sayville Commons	NY-0253235	6.0	3.9	5.2	13.2	12.4	23.6	19.7	17.8	9.1	4.1	1.2	2.9	13.8		4.0	4.5	9.4	4.8	4.4
Senior Housing @EM Walden Ponds	NY-0253375	8.5	12.4	6.0	3.2	5.8	4.8	7.5	6.1	8.7	4.5	4.2	4.6	17.7		5.6		7.1	5.2	8.9
Setauket Meadows	NY-0254517	3.9	1.1	1.4	4.3	0.8	1.4	1.1	0.2	0.8	1.3	0.9	0.7	10.1		3.3		2.2	2.5	5.2
Smithaven Mall	NY-0080446	7.8	7.0	6.2	4.4	3.0	3.3	29.7	5.7	6.0	3.0	2.6	2.6	6.3		1.6		6.4	4.6	8.5
Smithtown Galleria	NY-0252824	0.9	3.6	2.8	2.9	2.7	2.3	2.8	2.0	1.4	2.8	2.5	2.9	4.0		8.7		3.0	3.3	4.6
Southampton Commons	NY-0179213	3.2	10.4	7.5	9.0	1.7	4.1	1.6	1.6	0.4	0.4	1.2	1.3	0.3		3.3		3.3	4.2	3.2
Southampton Hospital	NY-0065374	8.7	7.0	3.5	4.5	7.6	2.1	3.1	2.5	2.0	2.7	4.0	3.8	5.3		1.4		4.1	3.3	3.7
Southern Meadows	NY-0077364	5.5	6.8	10.2	10.4	4.6	4.1	7.3	4.3	2.2	5.8	4.4	3.5	7.0		0.9		5.5	5.1	4.9
Springhorn	NY-0226963	14.0	4.0	4.0	7.0	9.0	3.0	3.0	2.0	5.0	4.0	5.0	6.0	5.1		2.6		5.3	15.0	28.9
Spruce Ponds	NY-0252972	4.1	5.2	3.9	3.7	3.5	6.3	6.5	5.4	6.4	2.9	3.9	3.1	2.9		6.2		4.6	4.9	4.3
Stonehurst	NY-0239011	7.1	3.5	3.7	4.6	2.2	8.7	2.9	1.6	4.2	2.2	2.0	2.4	17.0		10.8		5.2	3.9	5.8
Stone Ridge at Dix Hills	NY-0253171	4.2	4.0	17.5	2.5	7.4	3.4	2.6	4.1	8.4	4.0	1.5	8.6	3.3		6.4		5.6	6.3	6.5
Stonington	NY-0210161	3.1	6.5	5.8	4.6	2.5	3.8	1.9	0.8	7.3	10.0	9.9	2.9	18.1		11.2		6.3	8.5	6.1
Stony Hollow	NY-0079529	6.7	10.2	4.3	8.3	3.0	6.1	3.7	3.3	3.7	4.2	3.0	5.5	7.0		6.7		5.4	6.9	7.0
Stratford Green	NY-0077461	4.1	2.3	4.5	3.3	2.9	4.0	1.9	3.6	4.1	2.6	2.1	3.2	1.4		3.0		3.1	4.3	3.2
Stratmore on the Green	NY-0253065	11.2	19.1	12.5	10.3	8.2	36.5	5.5	4.6	7.0	6.1	10.7	8.3	15.1	3.6	8.6	7.2	10.9	6.1	5.7
Sunrise Assisted Living @Holbrook	NY-0227226	7.0	3.0	3.0	8.0	5.0	3.0	2.0	2.0	4.0	10.0	4.0	5.0	2.8		0.9		4.3	4.2	4.2

2015 SCDHS Inspection Data and Monthly DMR Data  
Low Risk Total Nitrogen Plants

Sewage Treatment Name	SPDES #	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	SC#1	SC#2	SC#3	SC#4	2015 AVG	2014 Avg	2013 Avg
Sunrise Dix Hills	NY-0226882	5.0	16.0	4.0	5.0	5.0	4.0	2.0	9.0	7.0	3.0	3.0	3.0	14.4		7.3		6.3	6.2	3.8
Sunrise E. Setauket	NY-0266442	5.0	4.0	4.0	4.0	6.0	5.0	4.0	3.0	8.0	6.0	4.0	6.0	5.7		4.5		4.9	4.0	3.9
Sunrise of Smithtown	NY-0226998	7.0	3.0	5.0	5.0	5.0	5.0	5.0	2.0	5.0	3.0	3.0	5.0	5.1		2.0		4.3	4.4	4.8
Sunrise Village	NY-0195758	21.7	12.1	14.0	9.3	6.8	6.3	2.9	4.8	8.2	6.4	30.2	6.3	10.2		3.8		10.2	10.1	7.4
Valley Forge	NY-0065331	2.8	4.3	8.6	9.3	6.5	3.0	3.7	3.7	7.6	1.6	1.4	9.1	22.4		17.9	4.2	7.1	4.9	6.0
Victorian Gardens	NY-0253090	6.5	6.4	11.2	11.9	2.3	3.3	3.6	4.6	3.8	7.5	4.7	4.2	2.2		5.0		5.5	10.4	13.3
Villas @ Pine Hills	NY-0079405	9.6	7.8	14.0	8.6	2.6	4.8	5.2	2.5	2.9	3.1	2.6	1.20	19.8	4.1	2.5		6.1	10.6	6.7
Vinyard at Moriches	NY-0254819	6.9	15.9	1.3	16.7	3.2	5.2	4.6	7.0	6.4	7.2	6.6	4.5	7.2		14.0		7.6	6.7	7.0
Waterways	NY-0198480	14.0	11.9	6.0	5.7	3.3	3.7	6.2	3.2	3.1	2.4	1.9	1.3	6.6	6.2	0.7		5.1	6.0	7.8
Waverly Park	NY-0077381	5.6	5.5	6.6	7.5	8.2	19.1	11.6	3.2	8.6	14.5	5.4	7.0	4.6	4.3	11.9		8.2	5.6	7.2
West Hampton NH	NY-0210901	8.8	3.3	9.6	15.5	6.5	6.7	13.4	8.4	6.5	8.6	7.1	6.2	10.7		4.3		8.3	5.6	11.1
Westhampton Pines	NY-0254550	1.4	7.5	14.9	4.7	3.9	3.4	2.9	4.1	5.8	17.2	1.8	2.3	21.1		13.8		7.5	7.2	7.1
Whispering Pines	NY-0066559	10.4	10.2	10.8	5.2	7.9	5.7	4.1	2.2	3.7	5.7	4.7	5.2	3.8		5.1		6.0	5.9	6.6
Wildwood Estates	NY-0279617	23.2	3.9	4.4	0.8	20.1	3.1	2.2	6.0	1.1	2.2	1.9	9.9	3.4	5.6	8.2		6.4		
Willow Ponds	NY-0253197	1.2	7.3	16.2	5.4	4.6	2.4	2.7	11.0	1.7	1.2	1.7	2.3	9.6		3.5		5.1	3.9	4.9
Woodcrest	NY-0210684	12.9	3.5	9.1	47.1	6.4	5.2	5.2	5.5	4.9	5.3	3.6	5.1	7.7		4.8	6.0	8.8	6.9	6.2
Woodhull	NY-0079341	3.0	7.0	7.1	1.9	10.3	3.6	2.5	2.1	1.8	1.9	4.1	5.7	15.4		3.6		5.0	5.6	4.6
<b>AVERAGE:</b>																		<b>6.3</b>	<b>7.0</b>	<b>7.9</b>

Total Facilities : 113  
Facilities in Average: 113  
Facilities Omitted from Average: 0

2015 SCDHS Inspection Data and Monthly DMR Data  
High Risk Total Nitrogen Plants

Sewage Treatment Name	SPDES #	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	SCQ1	SCQ2	SCQ3	SCQ4	2015	2014	2013	Risk Cat.						
Birchwood Spring Lake	NY-0196762	10.4	5.4	8.1	27.5	20.6	13.6	16.0	3.3	7.2	14.5	7.1	6.8	25.0		29.2		13.9	9.3	8.7	VC						
Bristol East Northport	NY-0278793	90.5	14.1	52.4	21.6	9.3	21.9	41.5	31.2	35.0	25.0	6.0	7.0	35.4	14.2	16.4	9.5	26.9	23.0	11.2	VC						
Bristol Lake Grove	NY-0285897	No Discharge																10.0	8.0	10.4		5.4	7.6	8.3			NISS
Brookwood on the Lake	NY-0136492	14.4	13.5	21.1	16.2	13.7	7.1	11.8	11.3	7.9	9.2	12.5	17.0	9.9	8.4	5.4	12.2	12.0	15.5	19.2	UPG						
Courtyard at Southampton	NY-0254941	19.0	12.3	13.3	12.4	25.9	14.7	9.7	20.4	17.8	16.4	11.0	13.0	7.7	21.0	4.1	18.5	14.8	21.9	18.0	VC						
East Port Meadows	NY-0278289	25.4	28.2	23.7	21.3	18.6	33.8	13.6	10.6	21.7	24.6	13.4	7.6	20.5	10.7	17.9	6.0	18.6			NISS						
Hidden Ponds	NY-0196282	11.1	14.7	2.7	2.4	7.7	8.1	25.4	23.3	12.1	26.1	4.3	19.0	10.7	40.8	29.6	24.1	16.4	9.5	15.8	VC						
Island View	NY-0252981	26.0	13.5	4.1	7.1	7.6	14.4	35.8	20.2	20.2	9.6	8.0	11.9	20.1	17.0	39.4	12.4	16.7	11.3	8.9	UPG						
LA Fitness	NY-0285552	65.0	70.1	31.1	10.5	19.5	11.7	14.0	16.3	4.5	15.9	23.8	33.4	64.0	32.6	42.7	21.4	29.8			UPG						
La Quinta	NY-0254487	7.6	8.8	14.3	13.5	8.2	6.5	3.5	7.0	12.6	16.7	3.2	7.3	14.6		18.8		10.2	2.8	5.7	UPG						
Mac Arthur Plaza	NY-0197432	67.3	87.7	47.7	66.4	3.2	47.0	109.0	15.5	49.4	58.9	23.6	11.3	42.8	29.5	15.5	102.5	48.6	34.9	74.3	UPG						
Medford Multicare Center	NY-0253383	6.0	3.5	4.1	9.5	9.7	39.2	N/D	17.7	12.5	8.1	27.0	6.4	45.4		7.2		15.1	4.5	5.1	UPG						
Medical Office Building (Ema	NY-0266418	22.2	47.4	20.9	27.0	18.4	13.1	9.4	26.1	42.7	18.8	64.4	11.0	27.2	10.6	N/D	2.7	24.1	27.6	22.1	UPG						
North Isle	NY-0079430	46.2	79.4	43.6	5.0	29.8	20.3	25.2	34.1	33.7	35.5	31.0	44.0	34.9	35.8	4.8	25.6	33.1	27.5	33.4	UPG						
Orchard at Bulls Head Inn	NY-0279501	72.1	8.1	6.4	2.0	22.7	18.1	24.8	2.8	2.4	3.9	14.6	1.9	6.3	21.5	4.7	6.8	13.7	20.6		UPG						
Ponds at Southampton	NY0285820	25.4	21.5	22.0	5.3	31.8	17.7	7.5	8.2	6.4	27.9	15.3	35.2	31.2	20.4	26.7	21.9	20.3			NISS						
Silver Ponds	NY-0210269	10.1	8.4	8.4	11.7	5.2	21.2	2.9	28.1	3.9	29.1	5.3	7.5	6.1	18.1	12.4		11.9	9.5	11.0	VC						
Suffolk Center for Rehab and	NY-0080454	30.0	53.7	33.8	26.8	3.4	7.9	17.4	7.0	8.0	2.1	5.7	8.9	30.8	17.5	4.9	8.1	16.6	18.7	27.9	UPG						
Sunrise Garden Apartments	NY-0077259	Secondary STP			9.6	20.0	11.4	10.0	11.4	9.5	9.7	12.6	3.0	9.3		6.7		10.3			NISS						
Timber Ridge @ Westhampton	NY-0277487	42.8	15.2	25.6	53.8	43.5	38.7	13.8	20.9	44.5	23.4	18.6	29.7	2.0	51.0	10.1	27.7	28.8			NISS						
Victorian Homes	NY-0226858	16.0	16.0	11.8	10.9	9.4	9.3	9.5	9.6	21.8	6.3	2.7	9.1	8.7	18.4	9.0	8.9	11.1	11.5	21.8	UPG						
Village in the Woods	NY-0078123	31.8	42.0	27.1	4.0	3.3	5.9	1.7	4.2	4.7	22.8	10.8	4.5	22.8	49.9	14.0	13.9	16.5	34.2	34.4	UPG						
Windbrooke	NY-0077411	3.8	4.4	6.7	6.5	4.4	28.9	16.8	21.7	53.3	22.2	5.8	2.7	5.0		9.4		13.7	9.1	7.7	UPG						
Woodbridge @ Hampton Bay	NY-0226777	2.1	10.1	39.3	23.4	27.5	29.4	30.0	18.4	2.7	11.9	9.1	8.9	47.1	12.1	3.0	3.7	17.4	6.9	7.0	UPG						

<b>AVERAGE:</b>	<b>18.7</b>	<b>17.6</b>	<b>21.2</b>
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Total Facilities 24  
Facilities in Average 20  
Facilities Omitted From Average 4 Facilities not in steady state 4

# **SAMPLING ANALYSES DATA**

**For BOD & TSS**

2015 SCDHS Inspection Data and Monthly DMR Data  
Municipal/Industrial/DPW Plants BOD and SS

Sewage Plant Name	SPDES #	OOB	Sample	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	SC#1	SC#2	SC#3	SC#4	Avg.
Bergin Point	NY-0104809	No	BOD	11.0	28.0	12.0	10.0	13.0	25.0	7.0	15.0	7.0	5.0	19.0	6.0	4.0		3.0		11.8
			SS	18.0	21.0	18.0	17.0	22.0	12.0	20.0	7.0	23.0	13.0	8.0	13.0	12.0		22.0		16.1
Brookhaven Town	NY-0088447	No	BOD	10.0	8.6	3.0	30.0	12.0	N/D	N/D	3.0	3.0	3.0	30.0	17.0	N/D		3.0		11.1
			SS	18.8	15.2	10.0	21.2	14.4	N/D	N/D	10.0	4.0	4.0	50.0	79.0	N/D		12.0		21.7
Calverton Ent. Park	NY-0025453	No	BOD	32.0	7.0	10.0	7.0	9.0	6.0	11.2	6.8	3.0	5.0	N/D	3.0	4.0		53.0		12.1
			SS	33.0	19.2	22.0	26.8	30.4	71.0	6.0	6.6	16.8	24.0	N/D	39.0	112.0		38.0		34.2
Ocean Beach	NY-0020168	No	BOD	2.0	2.0	2.0	2.0	3.0	3.0	10.0	18.0	8.0	2.0	2.0	2.0	3.0		1.0		4.3
			SS	5.0	4.0	8.0	10.0	8.0	8.0	6.0	8.0	5.2	4.0	4.0	4.0	4.0	10.0		10.0	
Plum Island	NY-0008117	No	BOD	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	3.0		3.0		3.9
			SS	5.0	10.0	9.0	6.0	4.0	9.0	7.0	10.0	25.0	5.0	7.0	6.0	19.0		10.0		9.4
Riverhead Town	NY-0020061	No	BOD	9.0	9.0	27.0	13.0	12.0	12.0	5.0	4.0	33.7	6.5	7.5	20.7	5.0		3.0	29.0	13.3
			SS	16.0	16.0	15.0	13.0	12.0	9.0	5.0	4.0	59.0	28.0	17.0	34.6	10.0		15.0	30.0	19.1
																	Average BOD			9.4
																	Average SS			17.9

Total Facilities	6
Facilities Considered in Average	6
Facilities Omitted From Average	0



2015 SCDHS Inspection Data and Monthly DMR Data  
 Low Risk Plants BOD and SS Results

Sewage Plant Name	SPDES #	OOO	Sample	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	SC#1	SC#2	SC#3	SC#4	Avg.
Shelter Island Heights	NY-0021814	No	BOD	2.0	20.0	4.0	9.0	6.0	6.0	6.0	20.0	11.0	11.3	2.0	2.0	3.0		6.0		7.7
			SS	7.0	18.0	6.0	15.0	2.0	4.0	9.0	7.2	17.0	7.0	6.0	10.0	10.0		10.0		9.2
																	Average BOD			7.7
																	Average SS			9.2
Total Facilities																				1
Facilities Considered in Average																				1
Facilities Omitted From Average																				0

2015 SCDHS Inspection Data and Monthly DMR Data  
High Risk Plants BOD and SS

Sewage Plant Name	SPDES #	OOC	Sample	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	SC#1	SC#2	SC#3	SC#4	Avg.	
Calverton Hills	NY-0080616	Yes	BOD	5.0	4.0	8.0	73.0	25.0	4.0	38.0	5.0	3.0	17.0	29.0	5.0	17.0	5.0	3.0	9.0	15.6	
			SS	10.0	4.0	10.0	13.2	34.0	19.0	102.0	12.4	20.0	18.0	42.0	10.0	22.0	17.0	10.0	38.0	23.9	
Cedar Lodge	NY-0080586	No	BOD	17.0	23.0	35.0	31.0	10.0	15.0	9.0	9.0	10.0	8.0	6.0	2.0	20.0	5.0	6.0	5.0	13.2	
			SS	14.0	16.0	50.0	52.0	30.0	22.0	42.0	10.0	46.0	24.0	12.0	4.0	48.0	17.0	25.0	10.0	26.4	
Fairhaven Nesconest	NY-0074322	No	BOD	3.0	11.0	11.0	12.0	2.0	2.0	5.0	2.0	2.0	2.0	8.0	8.1	17.0		15.0		7.2	
			SS	10.0	14.8	13.2	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	30.0		18.0		12.6
Heatherwood House	NY-0079375	Yes	BOD	29.0	53.0	38.0	10.0	17.0	16.0	4.0	6.0	8.0	19.0	8.0	16.0	50.0	47.0	25.0	21.0	22.9	
			SS	0.0	12.6	0.0	16.0	58.0	22.0	6.4	5.0	23.2	27.0	N/D	28.0	98.0	86.0	19.0	28.0	28.6	
LaBonne Crescent Club	NY-0079537	Yes	BOD	14.0	6.0	6.0	30.0	10.0	6.0	63.0	18.0	18.0	8.0	4.0	16.0	22.0	43.0	29.0	17.0	19.4	
			SS	4.4	6.8	10.8	21.6	17.6	12.0	52.0	11.6	5.6	27.6	4.0	14.0	28.0	63.0	22.0	10.0	19.4	
Lexington Village	NY-0077399	Yes	BOD	330	99.0	150.0	120.0	68.0	82.0	120.0	110.0	14.0	150.0	75.0	44.0	110.0	74.0	81.0	62.0	105.6	
			SS	100	153.0	101.0	90.0	92.0	48.0	82.0	103.0	88.0	113.0	111.0	124.0	150.0	94.0	100.0	84.0	102.1	
Melville Mall	NY-0068080	no	BOD	31.0	9.0	6.0	17.0	15.0	9.0	95.0	52.0	110.0	57.0	89.0	6.0	15.0	9.0	87.0	3.0	38.1	
			SS	12.0	6.4	29.0	10.0	24.0	39.0	40.0	33.0	60.0	19.0	48.0	10.0	10.0	17.0	64.0	10.0	27.0	
Middle Island Co-op	NY-0080632	Yes	BOD	29.0	12.0	3.0	2.0	5.0	4.0	3.0	3.0	3.0	3.0	3.0	3.0	28.0	5.0	3.0	5.0	10.3	
			SS	6.0	10.0	4.0	12.0	9.0	25.0	22.0	8.0	4.0	4.0	5.0	11.0	10.0	15.0	18.0	2.0	10.3	
Rocky Point Apts.	NY-0065382	No	BOD	13.0	6.0	6.0	14.0	19.0	28.0	8.0	4.0	7.0	6.0	17.0	8.0	4.0	34.0	65.0	18.0	16.1	
			SS	14.0	10.0	10.0	16.0	10.0	43.0	10.0	10.0	10.0	17.0	16.0	21.0	10.0	34.0	20.0	37.0	18.0	
Sloan Kettering	NY-0266353	No	BOD	5.0	3.0	3.0	3.0	3.0	20.0	5.0	14.0	9.0	5.0	5.0	7.0	12.0		62.0		11.1	
			SS	10.0	8.0	5.0	4.0	10.0	20.0	7.0	47.0	14.0	4.0	15.6	25.0	46.0		180.0		28.3	
Somerset Woods	NY-0074250	Yes	BOD	4.0	3.0	3.0	6.0	3.0	3.0	3.0	3.0	3.0	3.0	5.0	4.0	16.0	6.0	8.0	13.0	5.4	
			SS	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.8	4.0	21.0	10.0	36.0	8.0	7.7
Sunrise Garden Apts.	NY-0077259	Yes	BOD	66.0	107.0	20.6	STP upgraded to Nitrogen Removal										82.0				68.9
			SS	7.0	98.0	24.0	STP upgraded to Nitrogen Removal										66.0				48.8
Tall Oaks	NY-0079367	Yes	BOD	97.4	125.0	300.0	189.0	133.0	120	61.2	4.0	4.0	25.0	57.8	51.8	380.0	89.0	20.0	5.0	103.9	
			SS	102	114.0	190.0	256.0	98.0	10.3	122.0	8.0	5.0	56.0	85.0	21.3	112.0	56.0	21.0	54.0	81.9	
Townhouse South	NY-0077241	Yes	BOD	236	55.4	50.5	8.5	23.0	9.9	5.4	17.4	9.6	6.0	4.8	4.0	340.0	7.0	5.0	4.0	49.2	
			SS	58.0	296.0	35.0	20.0	45.0	28.0	13.0	26.0	20.0	5.0	11.0	16.0	132.0	38.0	16.0	11.0	48.1	
Woodhaven Manor	NY-0079341	Yes	BOD	4.7	6.5	4.0	96.0	4.9	4.0	16.6	4.0	5.7	4.0	7.5	6.4	3.0	4.0	3.0	3.0	11.1	
			SS	9.0	8.0	4.0	7.6	9.0	7.6	18.0	5.0	12.0	5.0	5.0	5.0	10.0	10.0	10.0	10.0	8.5	
Total Facilities		15																	Average BOD		34.8
Facilities Considered in Average		15																	Average SS		33.1
Facilities Omitted From Average		0																			

2015 SCDHS Inspection Data and Monthly DMR Data

Seasonal Plants -Total Nitrogen

SPDES #	OOO	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	SC#1	SC#2	SC#3	SC#4	Avg.	
NY-0195952	VC	SEASONAL				2.2	10.8	2.8	7.6	2.1		SEASONAL					4.5		5.1
NY-0195995	NO	SEASONAL				17.5	3.6	24.1	10.1	1.7	25.2	SEASONAL					3.3		13.7
NY-0074365	NO	SEASONAL					4.6	4.3	9.1	3.8	3.8	SEASONAL					4.6		5.0
															Average TN			7.9	

	3
verage	3
verage	0

2015 SCDHS Inspection Data and Monthly DMR Data

Seasonal Plants -BOD and SS

SPDES #	OOO	Type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	SC#1	SC#2	SC#3	SC#4	Avg.	
NY-0195952	No	BOD	4.0	6.1	13.0	17.5	SEASONAL					4.0	6.0	3.0					7.7	
		SS	4.3	24.7	4.7	7.0	SEASONAL					5.0	5.0	10.0					8.7	
NY-0195995	No	BOD	4.0	13.1	9.2	6.9	SEASONAL					4.0	4.0	13.0					7.7	
		SS	2.7	24.0	7.0	10.0	SEASONAL					17.7	13.0	17.0					13.1	
NY-0074365	No	BOD	Facility is closed for the winter season and has no BOD/SS discharge.																	
		SS	Facility is closed for the winter season and has no BOD/SS discharge.																	
															Average BOD			7.7		
															Average SS			10.9		

	3
verage	3
verage	0