Pennsylvania Department of Environmental Protection

Southeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0056758**
Facility Type	**Municipal**	APS ID	**1127424**
Major / Minor	**Minor**	Authorization ID	**1509480**

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Applicant and Facility Information

Applicant Name	**Bucks County Water & Sewer Authority**	Facility Name	**Tradesville STP**
Applicant Address	1275 Almshouse Road	Facility Address	3430 Pickertown Road
	Warrington, PA 18976		Chalfont, PA 18914
Applicant Contact	John Butler	Facility Contact	Leonard Hughes
Applicant Phone	(215) 343-2538	Facility Phone	(215) 343-2538
Client ID	93895	Site ID	493025
Ch 94 Load Status	Not Overloaded	Municipality	Warrington Township
Connection Status	No Limitations	County	Bucks
Date Application Received	November 28, 2024	EPA Waived?	Yes
Date Application Accepted		If No, Reason	

Purpose of Application: Permit Renewal

Summary of Review

The applicant requested renewal of an NPDES permit to discharge 0.33 mgd of treated sewage effluent from the Tradesville STP to Mill Creek, a tributary to Neshaminy Creek.

The treatment process is based upon activated sludge using sequencing batch reactor technology. The treatment train includes an influent box, a screen chamber, a grit removal system, a pre-treatment equalization tank, two sequencing batch reactors, a post treatment equalization tank, UV disinfection, a sampling and meter box and an outfall to Mill Creek.

Wastewater treatment chemicals listed in the application are Aluminum Bisulfate (settling aid), Sodium Hydroxide (pH adjustment) and Magnesium Hydroxide (alkalinity control).

No upgrades to the STP are proposed at this time.

eDMR review shows the discharge is in compliance with the permit effluent limitations most of the times.

DEP inspection was conducted on 12/19/2024. No violations were noted.
No comments received from Operations Section.

Since there are no changes to the influent characteristics, stream quality, treatment units etc., the existing limits are carried over to the new permit.

Current influent monitoring for BOD5, CBOD5 and TSS are continued to be in the draft permit based on Chapter 94 requirement and to check compliance with the 85% removal requirement for secondary treatment.

Approve	Deny	Signatures	Date
X		*Sara Abraham* Sara Reji Abraham, E.I.T. / Project Manager	January 14, 2025
X		*Pravin Patel* Pravin C. Patel, P.E. / Environmental Engineer Manager	01/05/2025

Summary of Review

No industrial users are connected to the sewer system.

Sludge use and disposal description and location(s): Hauling away to DELCORA.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Act 14 Notifications:

Warrington Township - October 30, 2024
Bucks County - November 14, 2024

Permit Conditions:

A. No Stormwater
B. Acquire Necessary Property Rights
C. Proper Sludge Disposal
D. Chlorine Optimization
E. Operator Notification
F. Fecal Coliform Reporting
G. Operations and Maintenance Plan
H. Solids Management

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.33
Latitude	40º 15' 41.27"	Longitude	-75º 11' 9.97"
Quad Name	Doylestown	Quad Code	1644
Wastewater Description:	Treated Sewage Effluent		
Receiving Waters	Mill Creek (TSF, MF)	Stream Code	02741
NHD Com ID	25479180	RMI	1.55
Drainage Area	1.0 mi^2	Yield (cfs/mi^2)	0.07
Q_{7-10} Flow (cfs)	0.07	Q_{7-10} Basis	Previous fact sheet
Elevation (ft)	272	Slope (ft/ft)	0.0076
Watershed No.	2-F	Chapter 93 Class.	TSF, MF
Assessment Status	Impaired		
Cause(s) of Impairment	NUTRIENTS		
Source(s) of Impairment	MUNICIPAL POINT SOURCE DISCHARGES		
TMDL Status	Withdrawn in 2007	Name	Neshaminy Creek

Treatment Facility Summary

Treatment Facility Name: Tradesville WWTP

WQM Permit No.	Issuance Date
0998415	4/17/2017

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Sequencing Batch Reactor	Ultraviolet	0.33

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.429	947	Not Overloaded		Landfill

Compliance History

DMR Data for Outfall 001 (from December 1, 2023 to November 30, 2024)

Parameter	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24	JAN-24	DEC-23
Flow (MGD) Average Monthly	0.18480	0.17891	0.18076	0.18170	0.16764	0.1813	0.1948	0.2325	0.2465	0.2131	0.2596	0.2648
Flow (MGD) Daily Maximum	0.22441	0.20772	0.22617	0.29713	0.20197	0.2249	0.2296	0.4710	0.3800	0.2311	0.5459	0.6276
pH (S.U.) Instantaneous Minimum	7.1	6.9	7.0	7.0	7.2	7.08	7.13	6.90	6.80	6.46	7.47	6.93
pH (S.U.) Instantaneous Maximum	7.4	7.5	7.4	7.5	7.6	7.48	7.59	7.59	7.37	7.31	7.76	7.59
DO (mg/L) Instantaneous Minimum	6.2	6.2	6.0	6.0	5.7	5.89	7.20	8.64	8.05	8.59	8.21	5.54
CBOD5 (lbs/day) Average Monthly	< 5	< 5	< 3	< 3	< 4	< 3.6	5.7	18.0	10.3	14.3	41.1	9.0
CBOD5 (lbs/day) Weekly Average	11	9	< 3	4	6	5.4	7.9	33.4	14.5	25.5	142.0	12.3
CBOD5 (mg/L) Average Monthly	< 4	< 4	< 2	< 2	< 3	< 2.5	3.5	9.8	5.6	8.2	13.1	4.6
CBOD5 (mg/L) Raw Sewage Influent Average Monthly	306	264	254	260	239	386.0	278.0	246.8	234	253.8	163.8	179.5
CBOD5 (mg/L) Weekly Average	7.1	6	< 2	2	5	3.8	4.3	22.9	6.8	15.2	31.2	6.3
BOD5 (lbs/day) Raw Sewage Influent Average Monthly	650	493	652	546	522	823.6	639.1	724.2	696	669	673.0	539.5
BOD5 (mg/L) Raw Sewage Influent Average Monthly	383	297	393	337	340	464.3	336.2	285.0	318	336	283.2	249.0
TSS (lbs/day) Average Monthly	20	19	6	< 10	< 8	13.1	14.6	37.2	16.5	23.0	69.1	18.2

TSS (lbs/day) Weekly Average	53	51	13	18	25	34.4	18.7	100.8	20.1	50.3	160.3	33.9
TSS (mg/L) Average Monthly	13	13	4	< 6	< 5	9.0	9.0	23.3	9.0	13.3	21.0	8.8
TSS (mg/L) Raw Sewage Influent Average Monthly	264	278	280	244	258	243.5	268.4	232.8	271	222.0	232.0	201.8
TSS (mg/L) Weekly Average	35	34	9	10	17	24.0	11.0	69.0	11.0	30.0	37.5	14.0
Total Dissolved Solids (mg/L) Average Monthly	431	484	502	480	499	472	470.8	440	407	490	452.2	358.0
Total Dissolved Solids (mg/L) Daily Maximum	456	534	551	505	542	495	508	479	480	578	508	416
Fecal Coliform (No./100 ml) Geometric Mean	< 3	< 3	< 3	< 2	< 2	< 2.2	< 2	< 4.9	< 3	< 4.4	< 31.5	< 2.0
Fecal Coliform (No./100 ml) 90% of Samples	5	8						50	7	< 18	300	< 2
Fecal Coliform (No./100 ml) Instantaneous Maximum			5	< 2	5	3	< 2					
UV Intensity (µw/cm²) Minimum	0.01	0.03	0.01	00	1.01	0.01	0.00	0.28	0.00	0.00	00	00
Nitrate-Nitrite (lbs/day) Average Monthly	8	7.0	7.6	6.2	6.7	9.13	7.70	12.29	9.67	11.67	12.60	8.05
Nitrate-Nitrite (mg/L) Average Monthly	5.47	4.7	5.2	4.2	4.8	6.13	4.75	5.94	5.30	6.59	5.30	4.12
Total Nitrogen (lbs/day) Average Monthly	10	9	9	8	8	11.21	10.91	18.57	14.04	16.82	22.27	11.86
Total Nitrogen (mg/L) Average Monthly	6.40	6.08	6.19	5.23	6.03	7.53	6.72	9.02	7.66	9.53	8.54	6.09
Ammonia (lbs/day) Average Monthly	< 0.04	< 0.04	< 0.03	0.04	< 0.1	0.06	0.09	< 0.80	0.30	0.76	0.51	1.35
Ammonia (mg/L) Average Monthly	< 0.03	< 0.03	< 0.02	0.03	< 0.05	0.04	0.06	< 0.23	0.17	0.44	0.16	0.74
Total Phosphorus (lbs/day) Average Monthly	0.9	0.8	0.7	1.2	1.5	2.20	2.35	4.38	3.61	2.75	3.04	0.98

Total Phosphorus (mg/L) Average Monthly	0.6	0.5	0.5	0.8	1.1	1.46	1.49	2.09	1.99	1.55	1.20	0.49

Compliance History

Effluent Violations for Outfall 001, from: January 1, 2024 To: November 30, 2024

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
CBOD5	01/31/24	Wkly Avg	142.0	lbs/day	103	lbs/day
TSS	01/31/24	Wkly Avg	160.3	lbs/day	124	lbs/day
TSS	04/30/24	Wkly Avg	69.0	mg/L	45	mg/L
Total Phosphorus	04/30/24	Avg Mo	2.09	mg/L	2.0	mg/L

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .33
Latitude 40º 15' 42.37" **Longitude** -75º 11' 10.05"
Wastewater Description: Treated Sewage Effluent

Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
$CBOD_5$	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform (5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

The following are the recommended effluent limitations for the draft permit:

Parameter	Limit (mg/l)	SBC	Basis for Limits
CBOD5 (5/1 to 10/31)	20 mg/l	Average Monthly	**WQM model
CBOD5 (11/1 to 4/30)	25 mg/l	Average Monthly	Seasonal Limits
TSS	30 mg/l	Average Monthly	DRBC
NH3-N (5/1 to 10/31)	1.5	Average Monthly	**WQM model
NH3-N (11/1 to 4/30)	4.5	Average Monthly	Seasonal Limits
DO	5.0	Inst. Minimum	**WQM model
pH	Within 6.0 to 9.0 Std. at all times		Ch.93
Fecal Coliform	200/1000	Geo. Mean/Imax	Ch.93 and DRBC
Nitrate-Nitrite as N (11/1 to 3/31)	Report	Average Monthly	Existing***
Nitrate-Nitrite as N (4/1 to 10/31)	9.5	Average Monthly	Existing***
Total Nitrogen	Report	Average Monthly	Data Collection/SOP
Total Phosphorus	2.0	Average Monthly	Existing****
TDS	1000	Average Monthly	DRBC*****
UV light intensity	Report	Daily Minimum	Data Collection/SOP
E. Coli	Report	Inst. Maximum	Ch.92.a******

*all these above limits are existing except E. Coli monitoring.

**previous WQM model report is attached.

***the existing limit for NO2 +NO3 as N (historically established in the permit) from 4/1 to 10/31 based on protecting the surface water supply intake near the mouth of Neshaminy, is continued in the draft permit with monitoring from 11/1 to 3/31.

****existing load (TP) analysis was conducted during 2009 permit renewal. Since there is no TMDL for Neshaminy Creek (previous TMDL was withdrawn), current policy is to maintain existing loads.

*****Existing TDS limit is continued to be in the draft permit. This limit was established consistent with the DRBC docket # D-1999-012 CP-3.

****** E. Coli monitoring is included in the draft permit according to the DEP SOP guidance (Chapter 92.a.61). This is a new requirement and is consistent with the requirements of other similar discharges in the area.

Copper, Lead and Zinc discharge concentrations are reported in the application and review shows no concern for any of these parameters.

A PENTOXSD (predecessor of current TMS) run was conducted at the previous permit renewal and the report is in the file.

Anti-Backsliding

N/A

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
02F	2741	MILL CREEK	**1.550**	272.00	1.00	0.00000	0.00	☑

Stream Data

Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tributary Temp (°C)	Tributary pH	Stream Temp (°C)	Stream pH
Q7-10	0.100	0.00	0.07	0.000	0.000	0.0	0.00	0.00	20.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
Tradesville STP	PA0056758	0.3300	0.0000	0.0000	0.000	25.00	7.00

Parameter Data

Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CBOD5	20.00	2.00	0.00	1.50
Dissolved Oxygen	5.00	8.24	0.00	0.00
NH3-N	1.50	0.00	0.00	0.70

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
02F	2741	MILL CREEK	**0.000**	210.00	4.88	0.00000	0.00	☑

Stream Data

Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tributary Temp (°C)	Tributary pH	Stream Temp (°C)	Stream pH
Q7-10	0.100	0.00	0.34	0.000	0.000	0.0	0.00	0.00	20.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
		0.0000	0.0000	0.0000	0.000	25.00	7.00

Parameter Data

Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CBOD5	25.00	2.00	0.00	1.50
Dissolved Oxygen	3.00	8.24	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70

WQM 7.0 Hydrodynamic Outputs

SWP Basin	Stream Code	Stream Name
02F	2741	MILL CREEK

RMI	Stream Flow (cfs)	PWS With (cfs)	Net Stream Flow (cfs)	Disc Analysis Flow (cfs)	Reach Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Reach Trav Time (days)	Analysis Temp (°C)	Analysis pH
Q7-10 Flow												
1.550	0.07	0.00	0.07	.5105	0.00758	.465	7.78	16.72	0.16	0.591	24.40	7.00
Q1-10 Flow												
1.550	0.04	0.00	0.04	.5105	0.00758	NA	NA	NA	0.16	0.606	24.60	7.00
Q30-10 Flow												
1.550	0.10	0.00	0.10	.5105	0.00758	NA	NA	NA	0.16	0.577	24.21	7.00

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WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	☑
WLA Method	EMPR	Use Inputted W/D Ratio	☐
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	☐
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	☑
D.O. Saturation	90.00%	Use Balanced Technology	☑
D.O. Goal	5		

WQM 7.0 Wasteload Allocations

SWP Basin	Stream Code	Stream Name
02F	2741	MILL CREEK

NH3-N Acute Allocations

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
1.550	Tradesville STP	6.96	3	6.96	3	0	0

NH3-N Chronic Allocations

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
1.550	Tradesville STP	1.42	1.5	1.42	1.5	0	0

Dissolved Oxygen Allocations

RMI	Discharge Name	CBOD5		NH3-N		Dissolved Oxygen		Critical Reach	Percent Reduction
		Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)		
1.55	Tradesville STP	20	20	1.5	1.5	5	5	0	0

WQM 7.0 D.O.Simulation

SWP Basin	Stream Code	Stream Name
02F	2741	MILL CREEK

RMI	Total Discharge Flow (mgd)	Analysis Temperature (°C)	Analysis pH
1.550	0.330	24.397	7.000
Reach Width (ft)	**Reach Depth (ft)**	**Reach WDRatio**	**Reach Velocity (fps)**
7.780	0.465	16.721	0.160
Reach CBOD5 (mg/L)	**Reach Kc (1/days)**	**Reach NH3-N (mg/L)**	**Reach Kn (1/days)**
17.83	1.464	1.32	0.982
Reach DO (mg/L)	**Reach Kr (1/days)**	**Kr Equation**	**Reach DO Goal (mg/L)**
5.391	29.102	Owens	5
Reach Travel Time (days)			
0.591			

Subreach Results

TravTime (days)	CBOD5 (mg/L)	NH3-N (mg/L)	D.O. (mg/L)
0.059	16.04	1.24	6.49
0.118	14.43	1.17	6.82
0.177	12.98	1.11	7.00
0.236	11.68	1.05	7.15
0.295	10.50	0.99	7.27
0.354	9.45	0.93	7.38
0.413	8.50	0.88	7.49
0.473	7.65	0.83	7.58
0.532	6.88	0.78	7.62
0.591	6.19	0.74	7.62

WQM 7.0 Effluent Limits

SWP Basin	Stream Code	Stream Name
02F	2741	MILL CREEK

RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
1.550	Tradesville STP	PA0056758	0.330	CBOD5	20		
				NH3-N	1.5	3	
				Dissolved Oxygen			5

Pennsylvania
Department of
Environmental Protection

Proposed Effluent Limitations and Monitoring Requirements

Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Metered
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
Dissolved Oxygen	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	1/day	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) Nov 1 - Apr 30	69	103	XXX	25	37.5	50	1/week	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5) May 1 - Oct 31	55	83	XXX	20	30	40	1/week	24-Hr Composite
Carbonaceous Biochemical Oxygen Demand (CBOD5) Raw Sewage Influent	XXX	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Biochemical Oxygen Demand (BOD5) Raw Sewage Influent	Report	XXX	XXX	Report	XXX	XXX	2/month	24-Hr Composite
Total Suspended Solids	83	124	XXX	30	45	60	1/week	24-Hr Composite
Total Suspended Solids Raw Sewage Influent	XXX	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Total Dissolved Solids	XXX	XXX	XXX	1000	2000 Daily Max	2500	1/month	24-Hr Composite
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000*	1/week	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/week	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/quarter	Grab

Outfall 001, Continued (from Permit Effective Date through Permit Expiration Date)

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) (1)		Concentrations (mg/L)				Minimum (2) Measurement Frequency	Required Sample Type
	Average Monthly	Weekly Average	Daily Minimum	Average Monthly	Weekly Average	Instant. Maximum		
Ultraviolet light intensity (µw/cm²)	XXX	XXX	Report	XXX	XXX	XXX	1/day	Metered
Nitrate-Nitrite as N Nov 1 - Mar 31	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Nitrate-Nitrite as N Apr 1 - Oct 31	26.1	XXX	XXX	9.5	XXX	19	1/week	24-Hr Composite
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/week	24-Hr Composite
Ammonia-Nitrogen Nov 1 - Apr 30	12.4	XXX	XXX	4.5	XXX	9	1/week	24-Hr Composite
Ammonia-Nitrogen May 1 - Oct 31	4.1	XXX	XXX	1.5	XXX	3	1/week	24-Hr Composite
Total Phosphorus	5.5	XXX	XXX	2.0	XXX	4	1/week	24-Hr Composite

*Shall not exceed in more than 10% of samples.