

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

CENTRAL BUREAU OF WATER COMPLIANCE & ENFORCEMENT Mail Code 44-03/P.O. BOX 420 Trenton, NJ 08625-0420

FAX: (609) 292-6450

CATHERINE R.

Acting Commiss

March 29, 2018

Hand Delivery

PHILIP D. MURPHY

SHEILA Y. OLIVER

Lt. Governor

McCABE Governor

Andrew Pappachen, Water Utility Manager Trenton Water Works PO Box 528 Trenton, NJ 08604

RE:

Compliance Evaluation and Assistance Inspection

Trenton Water Works

PROGRAM INTEREST ID #: 1111001 and 5187 PROGRAM: Water Supply and Water Allocation

Compliance Activity # SCI 180001 Trenton City, Mercer County

Dear Mr. Pappachen:

A Compliance Evaluation and Assistance Inspection of your facility was conducted on <u>March 14</u>, <u>2018</u> and <u>March 19</u>, <u>2018</u> by representatives of the Department. Please address any items or concerns noted on the comments section of the attached report.

The items noted below, in the attached report with a compliance status of "OC" or "ON" and in the attached Notice of Violation have placed your facility in violation of the Safe Drinking Water Act (N.J.S.A. 58:12A-1 et seq.), the Safe Drinking Water Act regulations (N.J.A.C. 7:10-1 et seq.), the New Jersey Water Supply & Wastewater Operators' Licensing Act (N.J.S.A. 58:11-64 et seq.), the Licensing of Water Supply and Wastewater Treatment System Operators regulations (N.J.A.C. 7:10A-1 et seq.), the Water Supply Management Act (58:1A-1 et seq.), the Water Supply Allocation Permits regulations (N.J.A.C. 7:19-1 et seq.).

Significant Deficiencies Noted During Inspection:

All current and outstanding violations that TWW has will be addressed under separate cover.
 These include actions required for the Lead Action Exceedance violation, Disinfection By-Product violation and monitoring and reporting violations. The Division of Water Supply

and Geoscience will also be addressing all Total Coliform Sampling Plan deficiencies under separate cover. Should TWW not address any/all deficiencies, the Department can take enforcement action again TWW.

- TWW has violations under their Water Allocation Permit which are addressed in the attached Notice of Violation. The annual unaccounted-for water report was submitted to the Department on 3/28/18, however the report fails to identify measure taken to reduce unaccounted for water to below 15%, it also does not identify areas of water loss, methods utilized for leak detection, leaks repaired, meters added/replaced, among others. TWW's current unaccounted-for water is at 32% based on the report provided to the Department. TWW must provide the Department with an action plan and schedule to reduce the unaccounted-for water within the system.
- TWW must also evaluate their intake logs and records submitted to the Department to address inconsistencies noted during the inspection.
- TWW currently has a W-4 licensed operator for their Distribution System, but if there are any changes TWW must fill out the 065 form with the new operator's information and provide the form to the Department.
- During the inspection, the Department found significant deficiencies after an evaluation of the Operation and Maintenance (O&M) at TWW. Specifically, the O&M of the Super Pulsator treatment units, the Chlorine Contact Tanks and the Filter Bed Media is deficient. The Department hereby requires TWW to immediately address these deficiencies to ensure the protection of human health, safety, welfare and the environment with the water produced by TWW. This violation is addressed in the attached Notice of Violation.

A written report concerning specific details of remedial measures to be instituted for these items, as well as an implementation timetable, must be submitted to this Bureau within thirty (30) calendar days of receipt of this correspondence.

You are advised that the above citations provide for substantial penalties in cases of rule or regulation violations. Therefore, your prompt attention to this matter is anticipated. Also be advised that TWW is still responsible for addressing all outstanding enforcement actions with the Department, which includes the Administrative Consent Order (ACO) effective 2/5/18 and effective Notices of Non-Compliance, in addition to the violations identified in this report.

Note that you may also review your inspection report as well as many other DEP reports online at www.nj.gov/dep/inspections. This website also gives you the opportunity to provide us feedback about our operations. We would appreciate your input and will share all results with you upon your completion of a survey.

If you have any questions concerning the attached report, contact me at (609) 273-9493.

Very truly yours,

Jessica R. Sponaugle Environmental Specialist II

Enclosure: Cover Letter FY18 Inspection Report Notice of Violation

c:

Ray Bukowski, Assistant Commissioner of Compliance and Enforcement Michele Putnam, Assistant Commissioner of Water Resource Management Richard T. Paull, Director of Water and Land Use Enforcement Patricia Gardner, Director of the Division of Water Supply and Geoscience

Compliance Evaluation Summary (No Block/Lot)

Date Printed: 9/28/2022

Activity:

SCI 180001 *Standard Compliance Inspection (1111001)

Title Description:

fy18

Start Date/Time:

03/14/2018 9:00 AM

End Date/Time: 03/14/2018 4:00 PM

609-989-3218

Tim London, W-3 TWW

Program Interest:

TRENTON WATER WORKS 1111001 (SAFE DRINKING WATER)

RT 29.

TRENTON CITY, MERCER COUNTY

Mailing Address:

333 CORTLAND ST Trenton NJ 08638

Responsibility Entity(s)

Program Interests included in Inspection:

Trenton City Dpw

1111001 (Safe Drinking Water)

Trenton City Dpw	5187 (Water Allo	ocation)	
Lead Investigator	Other Investigators	Persons Interviewed	Witnesses
Sponaugle, Jessica	Carson, Heather	Andrew Pappachen, Water Utility Manager, 201-401-3955 Merkle Cherry, Director of Public Works, 609-789-3830 Sean Semple, Assistant Director of Public Works, 609-414-0277 Bill Mitchell, Water Treatment Plant Superintendent/ L.O., 609-439-2657	Persons interviewed continued: Taya Brown-Humphrey, Assistant Superintendent TWW, 609-213-3238 Theresa Ponella, Senior Engineer TWW, 609-989-3218 Tim London, W-3 TWW
	Collins, Alissa		Persons interviewed continued: Taya Brown-Humphrey, Assistant Superintendent TWW, 609-213-3238 Theresa Ponella, Senior Engineer TWW, 609-989-3218 Tim London, W-3 TWW
	Giberson, Kevin		Persons interviewed continued: Taya Brown-Humphrey, Assistant Superintendent TWW, 609-213-3238 Theresa Ponella, Senior Engineer TWW,

MacDonald, James

Persons interviewed

continued:

Taya Brown-Humphrey, Assistant Superintendent TWW, 609-213-3238 Theresa Ponella, Senior Engineer TWW, 609-989-3218 Tim London, W-3 TWW

Myers, Jennifer

Persons interviewed

continued:

Taya Brown-Humphrey, Assistant Superintendent TWW, 609-213-3238 Theresa Ponella, Senior Engineer TWW, 609-989-3218

Tim London, W-3 TWW

Poonolly, Filina

Persons interviewed

continued:

Taya Brown-Humphrey, Assistant Superintendent TWW, 609-213-3238 Theresa Ponella, Senior Engineer TWW. 609-989-3218 Tim London, W-3 TWW

Rizvi, Syed-Imteaz

Persons interviewed continued:

Taya Brown-Humphrey, Assistant Superintendent TWW, 609-213-3238 Theresa Ponella, Senior Engineer TWW. 609-989-3218 Tim London, W-3 TWW

General Comments:

Two day inspection, 3/14/18 and 3/19/18.

There is an Administrative Consent Order (ACO) in effect for Trenton Water Works (TWW) under NEA180001-1111001 to address identified deficiencies in system operations, staffing, emergency response and to cover the finished water storage reservoir. Monthly progress reports are being submitted to NJDEP.

Past Milestones on ACO:

- 2/5/18-- TWW needed to hire 10 critical positions identified within the ACO. TWW executed 2 emergency contracts with Wade Trim (on 1/16/18) and Banc3 (on 1/25/18) to bring in 15 total staff

- 3/5/18-- TWW needed to hire 10 additional critical positions for a total of 20. TWW provided the Dept with a list of 23 new hires. It is noted that some of the critical staff positions were filled by personnel within TWW that qualified for the positions. TWW must be aware that their ACO requirement also calls for the full staffing of the water system by 2/5/19.

Upcoming ACO milestones:

-3/30/18-- TWW must provide the Certification of Final Completion for the SCADA system upgrades and execute the system.(TWW explained and provided a report from the contractor on the SCADA project indicating that a Cert will not be possible due to a change order submitted for additional system upgrades. however this change order is not anticipated to have any impacts on day to day SCADA operations. TWW will need to provide the NJDEP a justification if this ACO milestone will not be met, and provide a description of the change work order.)

- -4/5/18-- I vvvv must nire all 29 critical starting positions identified in the ACO
- -4/5/18-- TWW must notify the Dept of the feasibility of the NJ American Emergency Interconnection Phase II project
- -4/30/18--TWW must secure a proposal for a Professional Engineer to evaluate the intake and complete preliminary designs.
- It is TWW's responsibility to be aware of all upcoming milestones within the ACO, in addition to outstanding violation action items.

Current/ Outstanding Violations:

- 1. PEA160001 and PEA160002-- failure to take turbidity grab samples when Combined Filter Effluent (CFE) River East went down in February 2016, any enforcement actions regarding this violation will be addressed under separate cover.
- 2. PEA170005-- Lead Action Level Exceedance--Failed to submit the corrosion control treatment recommendation due 12/30/17, the source water treatment recommendation due 8/30/17, and list of lead services and replacement schedule due 10/21/17. Since not addressed, a treatment technique violation was created under PEA180004 and PEA180005 and failure to provide public notice (PN) is addressed under PEA 180007. All items under the new violations are missing, a referral to enforcement was established and any enforcement actions regarding these violations will be addressed under separate cover.
- 3. PEA170010 and PEA170011--Surface Water Treatment violation for CFE down 9/25/17-11/2/17, grab samples taken, records provided to the department, returned to compliance by Division of Water Supply.
- 4. PEA170012--Maximum Contaminant Level (MCL) violation for HAA5 and TTHM Disinfection By Products (DBPs) for 10/1/17-12/31/17. PN and remedial actions report recieved in timeframe, the system will return to compliance after remedial actions are implemented within the year timeframe and the sample averages are in compliance.
- 5. PEA180002-- Failure to collect all 50 alkalinity samples in the distribution system between 7/1/17-12/31/17. One sample taken in Jan 2018, any enforcement actions regarding this violation will be addressed under separate cover.
- 6. PEA180003--Failure to maintain chlorine contact time due to turbidity levels in Jan 2018, PN provided on time, remedial measures report and action report were due Feb 2018. TWW provided the documents late on 3/20/18. Currently reviewing compliance for this violation.
- 7. PEA180006-MCL violation for DBPs first quarter 2018. Currently being addressed by TWW. PN due 4/5/18.

Inspection Attribute(s)	Quantity(s)
Number of Attributes: 0	

Start Date: 3/14/2018

Activity: SCI180001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

	Requirement	Status RTC	Results or Comments	Reqt. Source Ref # Reqt. Type
•	General System Info New Feb 2018			ng Maria meneniman arawa kanada kata da kanada kat K
Operating Status:				
Comments:	See Appendix of Comments.			
General System Info		H		Rules
				Т
Indicate system cont	act person(s), phone number(s), and email address.	DC	New contact for TWW under the Emergency Contract: Andrew Pappachen, Water Utility Manager	Rules
			Cell: 201-401-3955	T
	pancies between the current NJEMS General Inventory	Y	Changes need to be made in the following sections: 1.Population	Rules
report and the acida	1 system's inventory?.		2. Interconnections 3. Storage Tanks 4. Treatment Plant Processes	T
	e water system contract with another entity to operate the	Y	Currently under an emergency O&M contract with	Rules
water system? .			Wade Trim and Banc3 pursuant to their ACO requirement. Wade Trim is onsite and currently working to upgrade the polymer feed system and maintain the Mechanical Dewatering Facility (MDF). Banc3 is providing operators to work within the water treatment plant.	T
	ation served change on a seasonal basis? If so, indicate lation served during these periods.	N	no seasonal changes, but population needs to be changed to reflect estimate of 225,000 from 205, 000.	Rules
When required are t	he parameters analyzed using the appropriate analytical		Contract out for lab services through AGRA (#14013)	Rules
	ry(ies) certified in accordance with N.J.A.C. 7:18-1 et.	IC	for Lead and Copper, Nitrates, VOs and Inorganics, Trenton (#11133) also certified for some parameters including chlorine, turbidity, alkalinity and pH, J.R. Henderson (#15083) for DBPs and Total Organic Carbon (TOC).	T
LICENSED OPERA	TOR.	Н		Rules
ŕ				Т
	te system employ a licensed operator(s) holding the T and/or W class license(s) prescribed for this system?.	IC	New W-4 operator of record as of 3/12/18, John (Reno) Cassarini. Should Reno Cassarini no longer	Rules
[N.J.A.C. 7:10A- 1.]			resume the role of W-4 operator of record, TWW must submit the 065 form for the operator change.	T
Verify name(s), licer system's licensed op	ase(s) held, contact numbers and email address for the erator(s).	IC	L.O. on record during the time of inspection: T-4: Bill Mitchell (#0006714), 609-439-2657	Rules
		Ш	W-4: Reno Cassarini (#0003665), 609- 989-3222	T
	month is the licensed operator(s) on-site conducting operation of the system?	DC	Reporting 35-40 hours for both the T-4 and W-4 operators.	Rules
				T

Start Date: 3/14/2018

Activity: SCI180001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

	Requirement	Status RTC	Results or Comments	Regt, Source Ref# Regt. Type
ubject Item: GSIN - (Operating Status: Comments:	General System Info New Feb 2018 No status specified. See Appendix of Comments.			
For T3/T4 systems is week?. [N.J.A.C. 7:1	the licensed operator present for at least 35 hours a 0A- 1.10(g)]	IC	T-4 operator onsite Mon-Fri shift, on call as well.	Rules
		<u> </u>	·	Т
Name of backup ope	rator and licenses held?.	DC	T backup: Taya Brown Humphrey (T-4, #468606) W backup: Tim London (W-3, #551104)	Rules
				T .
schedule preventativ	erator conduct and document routine inspections and e maintenance tasks which will be undertaken to ensure crated and maintained properly? [N.J.A.C. 7:10A-	oc	Failure of the licensed operator to ensure that the system is operated and maintained properly. During the inspection, significant deficiencies were noted regarding the O&M of the Super Pulsators, Chlorine Contact Tanks, and the filter bed media, all of which have the potential to impact water quality. The filter bed media needs to be evaluated to ensure functionality. It should be noted that TWW contracts out for pump maint, mixer maintenance, electrical testing, and calibrations.	Rules T
conducting operation	rator developed a protocol to ensure employees and maintenance of the water system are aware of and ration and maintenance?. [N.J.A.C. 7:10A- 1.12(a)2i]	ON	Failure of the licensed operator to ensure that each employee associated with the operation and maintenance of the system is aware of their responsibilities including in the event of an emergency. Need to develop a protocol to ensure the operators are aware of their roles and responsibilities within the water system. With the addition of two emergency contract companies as well as new/existing TWW staff, coordination and training efforts are ongoing at TWW. Need to establish and document ongoing trainings. This deficiency is addressed under the ACO requirement.	Rules T
Did the licensed ope	rator or owner of a Public Water Treatment System	IC	T Reports submitted.	Rules
	rating reports in the manner required by the Department of the month following the month in which the data was . 7:10A- 1.12(d)]			T
WATER SYSTEM	OPERATIONS, MAINTENANCE & EMERGENCIES.	H		Rules
				T
Have there been any	modifications or additions to any source, treatment or e previous inspection? If so, were permits obtained prior	IC r	Permit obtained to switch out gas chlorine to sodium hypo, currently under construction. obtained a permit	Rules
	f construction?. [N.J.A.C. 7:10-11.5(a)]		to cover the reservoir, construction not yet commenced.	T
	paired components of source, treatment, storage and een disinfected according to AWWA guidance prior to	IC	When needed for water main breaks.	Rules
	ents into service? . [N.J.A.C. 7:10-11.6(d)]			T

Page 3 of 15

Start Date: 3/14/2018

Activity: SCI180001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

1111001 TRENTON WATER WORKS, Trenton City (SAFE DRINKING WATER)

	Requirement	Status RTC	Results or Comments	Reqt. Source Ref # Reqt. Type
•	General System Info New Feb 2018 No status specified. See Appendix of Comments.			
	ed to the Department for all issued permits at the uction? . [N.J.A.C. 7:10-11.10]	IC	No outstanding CCCs, will need to submit them when sodium hypo conversion project complete.	Rules T
	e a program for inspecting and exercising valves? Are attained and exercised on a regular basis? Are all valves	N	Have not exercised valves since 2014. Have a contract in place to address 6-24" valves in the Spring of 2018. Note that TWW must also be in compliance with the Water Quality Accountability Act and the requirements set forth with the ACO in regards to valve exercising, evaluation and replacement.	Rules T
Are all service connections?. [N.J.A	ections metered, if the system serves 500 or more a.C. 7:19- 6.5(a)5]	IC		Rules T
	quipment available for all indispensable source, pumping [N.J.A.C. 7:10-11.6(I)]	, IC	2 new NG generators at central pump station and reservoir gatehouse 1 diesel generator for the plant and redundant PSEG lines. Keep extra distribution system inventory at Cortland Street yard. Generators do not kick on immediately to prevent a surge, typically takes 30 min, but can vary. When plant is shutdown, the system is fed entirely by the reservoir.	Rules T
may tend to lessen th	tify the Department within 6 hours of any emergency that the quality or pressure of delivered water or increase the y of water that does not meet the standards?. [N.J.A.C.	t IC	NJDEP is notified, however TWW needs to be more descriptive with notifications. These notifications are required for events which include, but are not limited to, power outages/surges, chemical feed pump failures/disruptions, turbidity events, mechanical maintenance that takes a basin or mixer offline, etc.	Rules T
	or additives or water system components comply with the SF standards? . [N.J.A.C. 7:10- 8.2(b)]	IC	Reviewed onsite, chemicals had ANSI/NSF label.	Rules T
Does the system mai	intain a boil water advisory log?.	Y	Logs maintained at the plant and for the DS.	Rules T
Does the system mai	intain a log of events that may impact water quality?.	Y		Rules

ON - Out of Compliance, Non-referred

Start Date: 3/14/2018

Activity: SCI180001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

1111001 TRENTON WATER WORKS. Trenton City (SAFE DRINKING WATER)

	Requirement	Status RTC	Results or Comments	Reqt. Sourc Ref# Reqt. Type
•	General System Info New Feb 2018 No status specified. See Appendix of Comments.			
	ovide public notice as required by the state regulations?.	ON	Deficient on Public Notice (PN) requirement for lead violation (treatment technique violation for not responding to 2017 violation, Tier 2 PN required. These deficiencies are addressed under PEA170005, PEA180004, PEA180005 and PEA180007. Also, phone numbers on PN goes to either lab or L.O. and sometimes go unanswered. NJDEP recommends that the phone number on the PN documents be to a phone number that is more available and can be readily answered to address all calls, discussed during inspection.	Rules T
	ovide public notice in accordance with CFR 141,201 et egulations?. [N.J.A.C. 7:10- 5.5(a)]	IC	No RTCR violations in 2017, state is more strigent than federal regs.	Rules T
above-ground air ga have written approv	er is discharged to sanitary sewer, is it discharged via arp and not through a direct connection and does the systemal from the appropriate sewerage authority to do so? 4(e)]. [N.J.A.C. 7:10-11.14(e)4]		Filters backwashed roughly every 60 run hours. Backwashed to the Mechanical Dewatering Facility (MDF), not connected to sanitary. From MDF the water is returned to the head of the plant and solids are removed under TWW's NJPDES Residuals permit #NJ0240133.	Rules
FINISHED WATER	R STORAGE.	Н		Rules T
Does the system have system have an effect of the following for the following the following for the fo	re adequate total storage capacity? If not, does the water ctive storage waiver issued by the Department?. [N.J.A.C	IC	Whitehorse Tank: 1 MG Mercerville Tank: 1 MG Lawrence Tank: 1 MG Ewing Tank: 1 MG Jones Farm Tank: 1.37 MG Hopewell Tank: 0.6 MG Reservoir: 100 MG, 78 MG usable.	Rules T
Has the interior of t years?.	he storage tank(s) been cleaned/inspected in the last 5	Y	Whitehorse Tank: interior in 2017 Mercerville Tank: within the past 3 years Lawrence Tank: summer 2017 Ewing Tank: interior 2016 Jones Farm Tank: 2016 Hopewell Tank: interior due 2018 annual corrosion control inspection of the interior of all tanks.	Rules T
Has the exterior of t	he tank been inspected/maintained in the last year?.	Y	Whitehorse Tank: exterior in 2017 Mercerville Tank: painted in 2017 Lawrence Tank: painted in 2017 Ewing Tank: painted in 2017 Jones Farm Tank: 2016/ 2017 Hopeweil Tank: 2016 annual corrosion control inspection of the exterior of all tanks.	Rules

WN - Warning

Start Date: 3/14/2018

Activity: SCI180001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

Requirement	Status Results or Comments RTC	Reqt. Sour Ref# Reqt. Typ
ubject Item: GSIN - General System Info New Feb 2018		
Operating Status: No status specified.		
Comments: See Appendix of Comments.		
Oo the air vents, roof vents, overflow, and hatches have screens? . [N.J.A.C. 2:10-11.11(c)5]	IC Only the Jones Farma nd Lawrence Tanks were inspected during this onsite visit. Jones Farm: Yes	Rules
	Lawrence: Yes	Т
Are there visible problems with the foundation for the tank? (settling, cracks, leterioration etc.).	None observed on either the Jones Farm tank or Lawrence tank	Rules
		Т .
are there visible problems on the exterior coating of the tank? (rust, pitting, orrosion, leaks etc.).	None observed on either the Jones Farm tank or Lawrence tank	Rules
		Т
oo all tanks >100,000 gallons have an operable water level indicator? . N.J.A.C. 7:10-11.11(a)6]	IC	Rules
		T
s a low level alarm present and functioning for all storage tanks?. [N.J.A.C. :10-11.11(a)5]	IC	Rules
		T
NTERCONNECTIONS.	Н	Rules
		Т
f the system is interconnected to any other water system via an interconnection of six inches or more in diameter, is there a written agreement	ON Deficiency addressed under timelines in the modified ACO effective 2/5/18.	Rules
pecifying the conditions for its use and has said written agreement been pproved by the Department?. [N.J.A.C. 7:19- 6.9(g)]		T
Does the system regularly purchase water under normal (non-emergent) perating conditions? If yes, indicate source(s) of interconnection(s), annual	N Sell to AQUA, volume now reflected on Water Utilization Reports, before instructed during the	Rules
mounts (MGY), and months utilized.	inspection, the water diverted to AQUA was not reflected.	Τ
f the purveyor is a Class 2 (10,001-50,000 persons) or Class 3 (over 50,000 ersons) purveyor, were interconnection flow tests conducted on an annual	ON Deficiency addressed under timelines in the modified ACO effective 2/5/18.	Rules
passis on all interconnections six inches or more in diameter? Were the results of such tests submitted to the Department by the end of each calendar year?. N.J.A.C. 7:19-6.9(d)]		T
DISTRIBUTION SYSTEM MONITORING, PLANS AND DOCUMENTATION.	Н	Rules
		Τ .
f the system serves at least 10,000 people, did it analyze one iron and one nanganese sample? Was one additional sample each taken for every 50,000	IC Take 5 samples/year.	Rules
opulation served to a maximum of 5 samples each annually? (Not required or Non-Community Water Systems). [N.J.A.C. 7:10-7.3(c)]		T
REVISED TOTAL COLIFORM RULE.	S	Rules
		T
C - In Compliance ND - Compliance Not Determined OC - Out of Cor V - Potential Violation NC - No Obvious Concern ON - Out of Cor C - Data Collection WN - Warning	npliance NA - Not Applicable NI - Not Ins npliance, Non-referred Y - Yes N - No	pected

Start Date: 3/14/2018

Activity: SCI180001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

		Status RTC	Results or Comments	Reqt. Source Ref# Reqt. Type
•	General System Info New Feb 2018 No status specified.			
Comments:	See Appendix of Comments.			
	or developed a revised total coliform rule sample siting ith the Federal Regulations 40 CFR 141.8537. [N.J.A.C.	ND	Compliance Not Determined because the Total Coliform (TC) sampling plan was developed and submitted to the NJDEP for review. Deficiencies are noted, will be addressed under separate cover from the Division Water Supply. Should TWW not respond to the deficiencies, a Notice of Non-Compliance will be generated from the Division of Water Supply.	Rules T
Is the water purveyor the Revised Total Co	collecting coliform samples at locations specified with liform Rule sample siting plan? . [N.J.A.C. 7:10- 5.1]	CIC	Reviewed Chain Of Custody (COCs) cards to verify.	Rules T
	locations identified within the Revised Total Coliform an?. [N.J.A.C. 7:10-5.1]	IC	Identified in the plan.	Rules T
the routine coliform	stems or ground water systems serving >4,900 people, are samples being collected at regular time intervals ath? [N.J.A.C. 7:10- 5.1]	IC	Taken throughout the month, spread out appropriately. If multiple samples are taken from the same location it is spread out to 1sample/3 different weeks.	Rules
Are the Total Colifor	rm Rule sample sites evenly distributed? .	N	Will be addressed under separate cover. NJDEP recommends the installation of sample stations, something approved under the RTCR, to address areas that are not currently being sampled due to accessibility issues.	Rules T
LEAD & COPPER I	RULE.	S		Rules
				Т
Does the water syste	m have a written lead and copper sampling plan that	IC	Available and approved by NJDEP on 12/8/16.	Rules
that the water system	argeted sampling sites which is sufficiently large to ensure a can collect the number of lead and copper tap samples as a standard or reduced monitoring? . [N.J.A.C. 7:10- 5.1]			T
	sampling event, did the water system sample from the	Y	Sites verified.	Rules
targeted sampling po	ool identified in the lead and copper sampling plan?.			T
During the most rece	ent lead and copper sampling event, did the water system	NA	No changes	Rules
submit Form BSDW monitoring periods i 7:10- 5.1]	7-56 as notification for all sample site changes between n accordance with 40 CFR 141.90(a)(1)(v)?. [N.J.A.C.			Т
	m have any lead service lines? If yes, were at least 50% of	IC		Rules
the sites sampled du lines? . [N.J.A.C. 7:	ring the most recent sampling event from lead service 10-5.1]			Т

Start Date: 3/14/2018

Activity: SCI180001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

Requirement	Status Results or Comments Reqt. Son Ref # Reqt. Ty
ubject item: GSIN - General System Info New Feb 2018 Operating Status: No status specified. Comments: See Appendix of Comments.	
If the system had lead service lines, does the system maintain an inventory of hese lead service lines and update the inventory as they are replaced?.	ND Inventory of lead service lines was not reviewed during time of inspection, however due to TWW's Lead Action Level (LAL) exceendance, they must develop a plan to replace lead lines, and an inventory will then be received.
Has the system developed a plan for replacing annually at least 7 percent of the initial lead service lines if corrosion control treatment is installed and the lead action level is exceeded?.	N Part of the Notice of Non-Compliance for the LAL exceendance, TWW is missing this, addressed in the Notice of Non-Compliance sent to TWW by the Division of Water Supply.
Does the water system have a water quality parameter sampling plan, for monitoring water quality parameters under the lead and copper rule, that indicates sampling sites are representative of the entire distribution system?.	Py Distribution System: Rules alkalinity 50 samples/ 6months pH 50 samples/6 months Treatment Plant: alkalinity 1/2 wks pH 1/2 weeks total C 1/month
f the system has corrosion control treatment, does the system have records of naintenance, and for chemical feed corrosion control system? Does the system naintain dosage records and purchasing records for the chemical?.	Have corrosion control, records and preventative maint Rules to be addressed under ACO. Dosage logs available.
STAGE 2 DBPR / Disinfection.	S Rules T
s a chlorine residual taken for every total coliform sample? . [N.J.A.C. 7:10-5,1]	Reviewed COCs for TC samples to ensure residual is being taken, residual is noted on the COC. If residual is <.05 they take a Heterotrophic Plate Count (HPC), but not consistent in recording HPC result on the COC card. Reviewed log book for HPC samples.
s the water system ensuring the delivered water is microbiologically safe by disinfecting the water at the point of entry in compliance with the regulations ound under N.J.A.C. 7:10-11.16 and maintaining a detectable chlorine esidual in at least 95% of the monthly distribution system samples?. N.J.A.C. 7:10-4.1(a)]	IC All HPCs were <1 for non detectable chlorine residual Rules samples.
Has the water purveyor updated the Stage 2 DBPR plan following operation changes, or have they changed sampling locations only after approval was eccived by the Department? (40CFR141.622). [N.J.A.C. 7:10-5.1]	IC System obtained NJDEP approval to change a sample location. The site referred to as ART4-Spiezle group was changed on 5/10/17 to the Sonoco station. The change was APPROVED by NJDEP, but TWW needs to update their plan to reflect changes.
MCL VIOLATIONS.	H Rules T
Did the water supplier notify the Department of all MCL exceedances in a imely manner?. [N.J.A.C. 7:10- 5.4(e)]	IC Notified NJDEP. Rules
C - In Compliance ND - Compliance Not Determined OC - Out of Cor V - Potential Violation NC - No Obvious Concern ON - Out of Cor DC - Data Collection WN - Warning	

Start Date: 3/14/2018

Activity: SCI180001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

		Status RTC	Results or Comments	Reqt. Source Ref # Reqt. Type
-	General System Info New Feb 2018			
Operating Status:	No status specified.			
Comments:	See Appendix of Comments.		No. 1. V. 1. 10	D.1
compliance within or	er take all necessary actions to return the water system to ne year of receiving the results that caused an MCL N.J.A.C. 7:10- 5.7(a)]	ON	Missing. Lead and Copper violation required actions. If TWW doesn't have another LAL exceedance for the first half of 2018, and because they didn't have an exceedance for 2nd half of 2017, the system will be returned to compliance for sampling only, still required to address missing action items. For DBP violation, TWW has until the end of 2018 to be free of another DBP violation to be returned to compliance for sampling, but not for the remedial action measures. Addressed under PEA1700012, PEA170005, PEA180004, PEA180005 and PEA180006.	Rules T
•	New Surface/ GUDI Water Treatment Rule & POE Mon. Req (01		
Operating Status:	No status specified,			
Comments:	See Appendix of Comments.			
	WATER TREATMENT RULE & POE MONITORING	IC	1	Rules
REQUIREMENTS 01.			T	
Indicate the Surface	/ GUDI Treatment Plant Facility ID number, local name		RT 29 Treatment Plant, conventional treatment.	Rules
	(conventional, direct, or other).	DC	()	T
Are transmission line	es in place that can bypass treatment? If yes, since the last	NA	No piping in place to bypass treatment within the	Rules
inspection has the sy	stem ever bypassed treatment? If yes, when and why?.		plant.	
[N.J.A.C. 7:10- 2.4(i	a)] 			Т
DBP PRECURSOR	REMOVALS.	H		Rules
				Т
	/source water TOC sample collected from the surface t on a monthly basis in order to measure the DBP levels	IC	TOC samples analyzed by JR Henderson Labs, reviewed DBP Precursor Reports for 2017.	Rules
	0 CFR141.132? . [N.J.A.C. 7:10- 5.1]		Total DDI Troution Reports for 2017.	Т
	mal average of monthly TOC removal results 1.0 or	IC	2017: 1.32	Rules
greater? (40CFR14)	1.133(d)). [N.J.A.C. 7:10- 5.1]			T
Was an alkalinity sa	mple taken at the same time & location as the source	IC	Alkalinity samples taken by TWW at source.	Rules
	(40 CFR141.132). [N.J.A.C. 7:10- 5.1]			T
¥ 11 1 11 11 11	4 , 4 , 14 14 14		On diam hay and and district and a first and a second at the second at t	
	ast treatment process in a treatment plant with multiple? If no, is it allowed by a permit? . [N.J.A.C.	IC	Sodium hypochloride injection is last step, also added after Super Ps before the CT basin then flows to the filters.	Rules T
				1

Start Date: 3/14/2018

Activity: SCI180001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

	Requirement	Status RTC	Results or Comments	Reqt. Sou Ref # Reqt. Ty
-	ew Surface/ GUDI Water Treatment Rule & POE Mon. Require status specified.	01		10
1 5	lee Appendix of Comments.		•	
REATEMENT PROC		Н		Rules
			•	_
				Т
s the water system per	forming jar testing? If so at what frequency?.	Y	Daily jar test, every shift and every 4 hours, run a flash mixer test every 2 hours, and run jar test every hour during a storm event.	
			Have a zetameter also, charge analyzer is unreliable.	Т
When was the last time vere inspected/maintai	the active basin(s) (flocculation, sedimentation, etc.) ned?.	DC	Out to bid to rehab both Chlorine Contact basins. Sand separator is down, act as just basins now, one of those basins is down, and before bringing it back online TWW must clean it out. There is a film growing on it. Super Pulsators aren't functioning properly, TWW was currently cleaning one during time of inspection, and they clean one basin every 6 months which results in one basin going up to 18-24 months before cleaning.	Rules T
Have any basins been the than routine main	aken out of service since last inspection for reasons ontenance?.	Y	One chlorine contact basin is currently down because solids rake is broken and solids can't be removed. Online contact tank is also not removing solids effectively.	Rules T
are basins free of crack	ks, peeling paint (in need of routine maintenance)?.	N	Sand separator basin needs to be cleaned, contact basin needs to be cleaned once rake is fixed.	
				T
ILTRATION.	·	Н		Rules
				T
re any filters out of s	arvice?	Y	Filter 8E is down for a drain issue and 12 E is down	Rules
de any inters out of s	oi vicer.	¥	due to an actuator issue. Actuator has been obtained so should be online again soon.	T
			Filters run for about 60 run hours before backwashed.	
Type of filters (Gravity Membrane: Pressure o	y: constant or declining rate: Pressure; GAC; or ryacuum).	DC	Constant filter based on settled water level. No air scour	Rules
	,			T
ilter media type (sing	le, dual, multi).	DC	dual, anthracite sand	Rules
				T
When was the last time	e the filter media was replaced?.	DC	NJDEP is requiring an evaluation/ replacement if needed based on eval, addressed in attached NOV.	Rules
				T
Dates that each filter v	vas cored?.	DC	5-10 years ago, records available if needed.	Rules
	·			T
C - In Compliance V - Potential Violation OC - Data Collection	ND - Compliance Not Determined OC - Out of Co NC - No Obvious Concern ON - Out of Co WN - Warning			pected

Start Date: 3/14/2018

Activity: SCI180001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

	Requirement	Status RTC	Results or Comments	Reqt. Sourc Ref# Regt. Type
•	New Surface/ GUDI Water Treatment Rule & POE Mon. Red No status specified. See Appendix of Comments.	[01		
TURBIDITY REMO		Н		Rules
		L		Т
	calibrate turbidimeters as specified by the manufacturer filtration only) [40 CFR141.174(a) & 40 CFR141.560].	IC	Turbidimeters calibrated by ACS every 3 months, logs kept, Chlorine analyzers calibrated every 6 months by ACS	Rules T
	idity monitoring being conducted for combined filter advisional filter effluent (IFE)? . [N.J.A.C. 7:10- 9.6(a)]	ON	One of the CFEs was down from 9/25/17-11/2/17. Addressed under PEA170010 and PEA170011. IFEs were never down for over 5 days, or they would	Rules
	·		turn bed off.	
	ilter records maintained for at least 3 years in accordance 17 (direct/conventional filtration only), [N.J.A.C. 7:10-	IC		Rules T
	nonitoring results recorded every 15 minutes in CFR 141.174 and 40 CFR 141.560? (conventional/directions)	IC t	Recorded on SCADA.	Rules
filtration only). [N.J.				T
	urements of the combined filter effluent (CFE) recorded nours in accordance with 40 CFR 141.173 & 40 CFR 7:10-9.1]	at ON	Not when CFE down February 2016 which is addressed under PEA160001 and 160002. During the CFE event of Sept-Nov 2017, logs were provide to NJDEP in the After Action Report which demonstrated that TWW took hourly grab samples of the CFE.	Rules
in at least 95% of th	CFE turbidity measurements less than or equal to 0.3 NTC esamples taken in any month in accordance with 40 CFF 141.551? [N.J.A.C. 7:10-9.2(a)3]		During CFE event Sept-Nov this could not be determined, thus addressed under PEA170010 and PEA170011.	Rules T
	grab samples taken to verify the accuracy of all analyzers/recorders? . [N.J.A.C. 7:10- 9.6(b)]	ON	Not taken during the February 2016 event where a CFE went down. Typically take a grab every hour, protocols not followed during this event. Addressed under PEA160001 and PEA160002.	Rules T
	toring device failed, did the water system take a grab every four hours?. [N.J.A.C. 7:10- 9.6(b)]	ON	Not taken during the February 2016 event where a CFE went down. Typically take a grab every hour, protocols not followed during this event. Addressed	Rules T
			under PEA160001 and PEA160002.	
Were the CFE turbic state forms? . [N.J.A	dity measurements reported monthly on the appropriate	IC	C. C	Rules
State totalet [140.2]				Т
system contact the s	FE sample greater than INTU? If yes, did the water tate no later than the end of the next business day in	IC	TWW contacted NJDEP.	Rules
accordance with 40 systems only) . [N.]	CFR 141,175 & 141.551? (conventional/direct filtration			T

Start Date: 3/14/2018

Activity: SCI180001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

1111001 TRENTON WATER WORKS, Trenton City (SAFE DRINKING WATER)

Requirement	Status	Regt. Source	
	RTC		Ref#
			Reqt. Typ
bject Item: NSW1 - New Surface/ GUDI Water Treatment Rule & POE Mon. Req 0	1		
Operating Status: No status specified.	•		
Comments: See Appendix of Comments.			
or systems with a population of 10,000 or greater did an individual filter sceed >0.5 NTU in two consecutive 15 minute measurements (after the first	ns with a population of 10,000 or greater did an individual filter IC Oct 30, 2017 incident went over 1 NTU, filter profile	Oct 30, 2017 incident went over 1 NTU, filter profile conducted and reviewed by NJDEP.	Rules
our hours of operation) or exceed >1.0 NTU in two consecutive 15 minute		conducted and reviewed by 140000.	Т
neasurements (during any time of operation)? If so did the purveyor complete			•
filter profile within 7 days in accordance with 40 CFR 141.175?. [N.J.A.C.: 10-9.1]			
id the water system exceed >1.0 NTU in two consecutive 15 minute	3.7.1		Rules
leasurements (during any time of operation) in three consecutive months? If	NA		Ruics
o did the purveyor produce an individual filter self-assessment report within			T
4 days in accordance with 40 CFR 141.75 & 40 CFR 141.563 [N.J.A.C. :10-9.1]. [N.J.A.C. 7:10- 9.1]			
old the water system exceed > 2.0NTU (during any time of operation) in two	N7 4		Rules
onsecutive months? If so, did the water purveyor conduct and report the	NA		Kuios
esults of a comprehensive performance evaluation within 90 days (for			T
ystems 10,000 or greater) or 120 days (for systems <10,000) in accordance vith 40 CFR 141.175 & 40 CFR 141.563?. [N.J.A.C. 7:10- 9.1]			
Comments: No comments added.			Dulas
MCL VIOLATION REMEDIAL MEASURES REPORT.	IC		Rules
	Ш		
Did the Water Supply System adequately respond to the Department's written	ON	Missing remedial measure reports for LAL exceedance	T
	ON	Missing remedial measure reports for LAL exceedance	
	ON	Missing remedial measure reports for LAL exceedance and DBP violation report due 4/9/18. For the Chlorine	Rules
request for the submission of the MCL Violation Remedial Measures Report and copies of records required to be maintained related to compliance with New Jersey Safe Drinking Water Act. N.J.S.A. 58:12A-1 et. seg. and the	ON	and DBP violation report due 4/9/18. For the Chlorine violation (PEA180003) the report was provided late on	Rules
and copies of records required to be maintained related to compliance with New Jersey Safe Drinking Water Act, N.J.S.A. 58:12A-1 et. seq. and the promulgated regulations at N.J.A.C. 7:10-1 et. seq., and §1445 of the Federal	ON	and DBP violation report due 4/9/18. For the Chlorine	Rules
and copies of records required to be maintained related to compliance with New Jersey Safe Drinking Water Act, N.J.S.A. 58:12A-1 et. seq. and the promulgated regulations at N.J.A.C. 7:10-1 et. seq., and §1445 of the Federal Safe Drinking Water Act, and the promulgated regulations under the National	ON	and DBP violation report due 4/9/18. For the Chlorine violation (PEA180003) the report was provided late on	Rules
nd copies of records required to be maintained related to compliance with New Jersey Safe Drinking Water Act, N.J.S.A. 58:12A-1 et. seq. and the promulgated regulations at N.J.A.C. 7:10-1 et. seq., and §1445 of the Federal	ON	and DBP violation report due 4/9/18. For the Chlorine violation (PEA180003) the report was provided late on	Rules
nd copies of records required to be maintained related to compliance with New Jersey Safe Drinking Water Act, N.J.S.A. 58:12A-1 et. seq. and the fromulgated regulations at N.J.A.C. 7:10-1 et. seq., and §1445 of the Federal safe Drinking Water Act, and the promulgated regulations under the National Primary Drinking Water Regulations 40 CFR §141.31 and 40 CFR §141.33. N.J.A.C. 7:10-5.1 et. seq.]. [N.J.A.C. 7:10-5.1]		and DBP violation report due 4/9/18. For the Chlorine violation (PEA180003) the report was provided late on	Rules
and copies of records required to be maintained related to compliance with lew Jersey Safe Drinking Water Act, N.J.S.A. 58:12A-1 et. seq. and the romulgated regulations at N.J.A.C. 7:10-1 et. seq., and §1445 of the Federal afe Drinking Water Act, and the promulgated regulations under the National rimary Drinking Water Regulations 40 CFR §141.31 and 40 CFR §141.33. N.J.A.C. 7:10-5.1 et. seq.]. [N.J.A.C. 7:10-5.1]	ON IC	and DBP violation report due 4/9/18. For the Chlorine violation (PEA180003) the report was provided late on	Rules T
and copies of records required to be maintained related to compliance with lew Jersey Safe Drinking Water Act, N.J.S.A. 58:12A-1 et. seq. and the romulgated regulations at N.J.A.C. 7:10-1 et. seq., and §1445 of the Federal afe Drinking Water Act, and the promulgated regulations under the National rimary Drinking Water Regulations 40 CFR §141.31 and 40 CFR §141.33. N.J.A.C. 7:10-5.1 et. seq.]. [N.J.A.C. 7:10-5.1]		and DBP violation report due 4/9/18. For the Chlorine violation (PEA180003) the report was provided late on	Rules T
and copies of records required to be maintained related to compliance with lew Jersey Safe Drinking Water Act, N.J.S.A. 58:12A-1 et. seq. and the romulgated regulations at N.J.A.C. 7:10-1 et. seq., and §1445 of the Federal afe Drinking Water Act, and the promulgated regulations under the National rimary Drinking Water Regulations 40 CFR §141.31 and 40 CFR §141.33. N.J.A.C. 7:10-5.1 et. seq.]. [N.J.A.C. 7:10-5.1] EENERAL REQUEST FOR INFORMATION.		and DBP violation report due 4/9/18. For the Chlorine violation (PEA180003) the report was provided late on 3/20/18, was due Feb 2018. TWW did not provide the Department with all	Rules T
and copies of records required to be maintained related to compliance with lew Jersey Safe Drinking Water Act, N.J.S.A. 58:12A-1 et. seq. and the romulgated regulations at N.J.A.C. 7:10-1 et. seq., and §1445 of the Federal afe Drinking Water Act, and the promulgated regulations under the National rimary Drinking Water Regulations 40 CFR §141.31 and 40 CFR §141.33. N.J.A.C. 7:10-5.1 et. seq.]. [N.J.A.C. 7:10-5.1] SENERAL REQUEST FOR INFORMATION. Did the Water Supply System adequately respond to the Department's written equest for the submission of information and copies of records required to be	IC	and DBP violation report due 4/9/18. For the Chlorine violation (PEA180003) the report was provided late on 3/20/18, was due Feb 2018. TWW did not provide the Department with all requested information pertaining to the Lead Action	Rules T Rules T Rules
nd copies of records required to be maintained related to compliance with New Jersey Safe Drinking Water Act, N.J.S.A. 58:12A-1 et. seq. and the romulgated regulations at N.J.A.C. 7:10-1 et. seq., and §1445 of the Federal afe Drinking Water Act, and the promulgated regulations under the National rimary Drinking Water Regulations 40 CFR §141.31 and 40 CFR §141.33. N.J.A.C. 7:10-5.1 et. seq.]. [N.J.A.C. 7:10-5.1] SENERAL REQUEST FOR INFORMATION. Did the Water Supply System adequately respond to the Department's written equest for the submission of information and copies of records required to be naintained related to compliance with New Jersey Safe Drinking Water Act, N.J.S.A. 58:12A-1 et. seq. and the promulgated regulations at N.J.A.C.	IC	and DBP violation report due 4/9/18. For the Chlorine violation (PEA180003) the report was provided late on 3/20/18, was due Feb 2018. TWW did not provide the Department with all	Rules T Rules T
nd copies of records required to be maintained related to compliance with New Jersey Safe Drinking Water Act, N.J.S.A. 58:12A-1 et. seq. and the romulgated regulations at N.J.A.C. 7:10-1 et. seq., and §1445 of the Federal afe Drinking Water Act, and the promulgated regulations under the National Primary Drinking Water Regulations 40 CFR §141.31 and 40 CFR §141.33. N.J.A.C. 7:10-5.1 et. seq.]. [N.J.A.C. 7:10-5.1] GENERAL REQUEST FOR INFORMATION. Did the Water Supply System adequately respond to the Department's written equest for the submission of information and copies of records required to be naintained related to compliance with New Jersey Safe Drinking Water Act, N.J.S.A. 58:12A-1 et. seq. and the promulgated regulations at N.J.A.C. (:10-1 et. seq., and §1445 of the Federal Safe Drinking Water Act, and the	IC	and DBP violation report due 4/9/18. For the Chlorine violation (PEA180003) the report was provided late on 3/20/18, was due Feb 2018. TWW did not provide the Department with all requested information pertaining to the Lead Action Level (LAL) exceedance, addressed under seperate	Rules T Rules T Rules
nd copies of records required to be maintained related to compliance with New Jersey Safe Drinking Water Act, N.J.S.A. 58:12A-1 et. seq. and the romulgated regulations at N.J.A.C. 7:10-1 et. seq., and §1445 of the Federal afe Drinking Water Act, and the promulgated regulations under the National rimary Drinking Water Regulations 40 CFR §141.31 and 40 CFR §141.33. N.J.A.C. 7:10-5.1 et. seq.]. [N.J.A.C. 7:10-5.1] SENERAL REQUEST FOR INFORMATION. Did the Water Supply System adequately respond to the Department's written equest for the submission of information and copies of records required to be naintained related to compliance with New Jersey Safe Drinking Water Act, N.J.S.A. 58:12A-1 et. seq. and the promulgated regulations at N.J.A.C.	IC	and DBP violation report due 4/9/18. For the Chlorine violation (PEA180003) the report was provided late on 3/20/18, was due Feb 2018. TWW did not provide the Department with all requested information pertaining to the Lead Action Level (LAL) exceedance, addressed under seperate	Rules T Rules T Rules

WN - Warning

Start Date: 3/14/2018

Activity: SCI180001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

Requirement		atus TC	Results or Comments	Reqt. Sourc Ref# Reqt. Type
ubject Item: WXAP - Prenjems Water Allocation Permit				
Operating Status: No status specified.				
Comments: See Appendix of Comments.				
WATER ALLOCATION PERMIT.	· · · · · · · · · · · · · · · · · · ·	Н		Rules
				T
Did the person obtain a Water Allocation Permit or a Temporary Dermit prior to diverting water either from a single diversion source combined diversion sources at a rate in excess of 100,000 gallons of tay?. [N.J.A.C. 7:19-1.10]	e or from	IC	#5187, effective 4/1/17	Rules T
Did the permittee submit an application for renewal of the current p	permit three	IC	submitted 7/21/15	Rules
nonths prior to the expiration of the permit?. [N.J.A.C. 7:19- 2.4(a)]	a)]			T
Did the permittee divert water solely for purposes authorized by the permit?.	e permit?.	IC	public community water system	Rules
N.J.A.C. 7:19- 2.14(a)14]				Т
DPERATION AND MAINTENANCE.	· · · · · · · · · · · · · · · · · · ·	Н		Rules
				Т
Did the permittee provide a totalizing flow meter for all diversion sources?. [N.J.A.C. 7:19-2.14(a)4]	sources?.	IC	Flow is calculated using the totalizing flow meter and subtracting the recycled water flows from the MDF	Rules
		Ш	which are added before the totalizing flow meter.	T
Did the permittee calibrate each meter at least once every five years?. N.J.A.C. 7:19- 2.14(a)4]	rs?.	ОС	Failure to calibrate each meter at least once every five years. Records not available indicating the Intake flow	Rules
[14.J.M.O. 7.19-2.14(a)1]			meter has been calibrated within the past 5 years.	T
Did the permittee receive approval from the Bureau of Water Alloc		ОС	Failure to receive approval from the Bureau of Water Allocation prior to increasing the pumping equipment capacity. TWW increased the intake pumps from 25 MGD to 30 MGD for all three pumps. The Department requested a major permit modification request, TWW did not submit such a request.	Rules
to increasing the pumping equipment capacity?. [N.J.A.C. 7:19- 1.5(a)5]	(4)21			T
If the facility is a Public Community Water System, did the permit	ttee meter all	IC	metered.	Rules
existing services?. [N.J.A.C. 7:19- 6.5(a)5]			•	T
Did the permittee protect each source from vandalism, tampering, and contamination at all times? [N.J.A.C. 7:19-2.14(c)]	and	IC	surface water intake	Rules
				T
Did the permittee obtain written permission from the Department prior to a change in plans and specifications?. [N.J.A.C. 7:19- 2.14(a)]	prior to a	ON	See above OC for increasing pump capacity.	Rules
				T
Did the permittee keep a copy of the permit at the work site and ex	xhibit it	IC		Rules
upon request?. [N.J.A.C. 7:19- 2.14(a)]				T
	C - Out of Comp N - Out of Comp			pected

Start Date: 3/14/2018

Activity: SCI180001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

Requirement	Status RTC	Results or Comments	Reqt. Source Ref# Reqt. Type
- Prenjems Water Allocation Permit			
No status specified.			
See Appendix of Comments.			
Was a log book of month end meter readings for each diversion source naintained on site?. [N.J.A.C. 7:19- 2.14(a)]	ON	and what was reviewed by the Dept. TWW reported	
	L	and resubmit if errors.	Т
as the permittee complied with all of the specific conditions of the permit?. N.J.A.C. 7:19- 2.14(a)]	ON	TWW didn't apply for the requested permit	Rules
(~)		their permit requirement.	T
COMPLAINT INVESTIGATION, REPORTING AND MITIGATION.	Н		Rules
			Т
old the permittee investigate any valid complaints by users of wells or surface vater supplies within the zone of influence of this diversion?. [N.J.A.C. 7:1914(a)11]		All water quality complaints recieved by TWW	Rules
		directly are sampled, logged.	Т
Did the permittee repair or replace any well or surface water supply that has been rendered unusable as a result of the permittee's diversions?. [N.J.A.C. 7:19-2.14(a)11]	NA		Rules
			Т
WATER CONSERVATION AND DROUGHT MANAGEMENT PLAN.	Н		Rules
			T
Did the Water Allocation Permittee adopt and implement, to the satisfaction of the Department, a Water Conservation and Drought Management Plan as equired by the permit?. [N.J.A.C. 7:19- 2.14(a)10]	OC		Rules
		Management Plan as required by the permit. Due on 9/30/17 and every 2 years after.	Т
2380 - DELAWARE RIVER			
No status specified.			
No comments added.			
Did the permittee divert water only from the approved source at the maximum rate specified in the permit?	n N	increased pump capacity.	WAP150001
			2 L
72381 - 5187 WA PERMIT - ALL DIVERSION SOURCES			
No status specified.			
No comments added.			
Maximum Diversion Rate <= 52083.0 Gallons Per Minute. [N.J.A.C. 7:19-2.14(a)2]	IC		WAP150001
			3
	- Prenjems Water Allocation Permit No status specified. See Appendix of Comments. nonth end meter readings for each diversion source [N.J.A.C. 7:19- 2.14(a)] Implied with all of the specific conditions of the permit?. (a)] ESTIGATION, REPORTING AND MITIGATION. Vestigate any valid complaints by users of wells or surface in the zone of influence of this diversion?. [N.J.A.C. 7:19 pair or replace any well or surface water supply that has able as a result of the permittee's diversions?. [N.J.A.C. VATION AND DROUGHT MANAGEMENT PLAN. Pation Permittee adopt and implement, to the satisfaction in Water Conservation and Drought Management Plan as init?. [N.J.A.C. 7:19- 2.14(a)10] 2380 - DELAWARE RIVER No status specified. No comments added. Vert water only from the approved source at the maximum permit? 72381 - 5187 WA PERMIT - ALL DIVERSION SOURCES No status specified. No comments added.	Prenjems Water Allocation Permit No status specified. See Appendix of Comments. Nonth end meter readings for each diversion source [N.J.A.C. 7:19- 2.14(a)] Implied with all of the specific conditions of the permit?. (a) STIGATION, REPORTING AND MITIGATION. H Vestigate any valid complaints by users of wells or surface in the zone of influence of this diversion?. [N.J.A.C. 7:19- pair or replace any well or surface water supply that has able as a result of the permittee's diversions?. [N.J.A.C. ATION AND DROUGHT MANAGEMENT PLAN. H Intaion Permittee adopt and implement, to the satisfaction of Water Conservation and Drought Management Plan as init?. [N.J.A.C. 7:19- 2.14(a)10] 2380 - DELAWARE RIVER No status specified. No comments added. Vert water only from the approved source at the maximum permit? Intaion Permit water only from the approved source at the maximum permit? Intaion Permit water only from the approved source at the maximum permit?	Prenjems Water Allocation Permit No status specified. See Appendix of Comments. Donath end meter readings for each diversion source [N.J.A.C. 7:19- 2.14(a)] ON Reviewed onsite, discrepancies with what was reported and what was reviewed by the Dept. TWW reported higher values than what was found, please reevaluate and resubmit if errors. ON TWW didn't apply for the requested permit modification within 120 days of the EDP, pursuant to their permit requirement. ESTIGATION, REPORTING AND MITIGATION. H Vestigate any valid complaints by users of wells or surface in the zone of influence of this diversion? [N.J.A.C. 7:19- pair or replace any well or surface water supply that has the as a result of the permittee's diversions?, [N.J.A.C.

Start Date: 3/14/2018

Activity: SCI180001 *Standard Compliance Inspection

Lead Investigator: Sponaugle, Jessica

1111001 TRENTON WATER WORKS, Trenton City (SAFE DRINKING WATER)

Requirement	Status RTC	Results or Comments	Reqt. Source Ref# Reqt. Type
Subject Item: WSWA72381 - 5187 WA PERMIT - ALL DIVERSION SOURCES Operating Status: No status specified. Comments: No comments added.			
Water Diverted <= 1350.0 Million Gallons Per Month. [N.J.A.C. 7:19-2.14(a)2]	IC	2016: highest in Sept, 912 MG 2017: highest in July and Oct with 868 million gallons, but reporting errors.	WAP150001 5 L
Water Diverted <= 16200.0 Million Gallons Per Year. [N.J.A.C. 7:19-2.14(a)2]	IC	2016: 9686.9 MGY 2017: 7295 MGY	WAP150001 6 L
The permittee shall reduce unaccounted-for water to less than 15% by the expiration date of this permit. A detailed annual report shall be submitted outlining the measures taken to reduce the unaccounted-for water to below 15% and should include but not be limited to: identified areas of water loss; methods utilized for leak detection; leaks repaired; meters added/replaced, and updated annual unaccounted-for water calculations. In addition, copies of the AWWA Water Audit submittal to DRBC should be provided to the Bureau. This annual report shall be submitted Submit Report as Described: by January 31st of each year. [N.J.A.C. 7:19-2]		TWW did not submit the annual report for 2017, was due 1/31/18.	WAP150001 16 S

WN - Warning

Compliance Evaluation Report Subject Item Comments Appendix

Subject Item: GSIN - General System Info New Feb 2018

Operating Status: No status specified.

Comments:

General System Info Additional Comments:

-As of 3/19/18, coordination efforts are ongoing between Wade Trim, Banc3 and TWW operators. To ensure successful operation of the water system, TWW needs to develop a protocol to ensure the operators, laborers, water repairers, etc. are aware of their roles and

responsibilities within the water system.

-TWW needs to re-evaluate training plans and protocols due to new employees and new responsibilities of staff within the water system. The current protocol is that operators are trained when they start their career at TWW and any changes to SOPs are given via "Memos", no continuous trainings are given. Need to establish an ongoing training program that trains day and night time operators.

-Treatment plant is still operating on a temporary sodium hypo system until building maintenance is complete.

-Onsite inspection of the Jones Farm Storage Tank and Lawrence Storage Tank. Lawrence tank is down due to a warranty repair, contractor didn't weld and seal properly, tank empty during time of inspection. Mercerville tank needs a new circulation mixer, like TWW needed for Whitehorse tank. This project is not out to bid yet. L.O. stated that Jones Farm and Hopewell tanks should be repainted in 2019.

-Onsite inspection of the reservoir, central pump station and the reservoir gatehouse. Reservoir gatehouse new chlorine feed system is fully installed and operational. They are keeping the temporary system onsite as a backup. Reservoir was full during time of inspections,

no issues noted.

Subject Item: NSW1 - New Surface/ GUDI Water Treatment Rule & POE Mon. Req 01

Operating Status: No status specified.

Comments:

Surface Water Treatment Additional Comments:

-Ongoing study on the Super Pulsators because they are not functioning properly, potentially causing significant solids buildup in the Cl

contact tanks.

-One chlorine contact tank is currently down due to the solids rake being broken, has been down for 2 years. Online tank is having a

problem removing solids effectively. Has the potential to impact water quality.

-2 mixing basins are down, only operate 2 at a time

- smaller flash mixer down for service but the larger is online, only need 1 online at a time.

Subject Item: WXAP - Prenjems Water Allocation Permit

Operating Status: No status specified.

Comments:

Water Utilization Reports were not reflecting water diverted to Aqua, instructed TWW to resubmit with accurate reports and submit

missing Oct-Dec 2017 report. TWW corrected the reports and submitted the missing report on 3/16/18.

NC - No Obvious Concern

ON - Out of Compliance, Non-referred