

Application Type Renewal
Facility Type Sewage
Major / Minor Minor

**NPDES PERMIT FACT SHEET
ADDENDUM**

Application No. PA0020435
APS ID 840244
Authorization ID 1083710

Applicant and Facility Information

Applicant Name	<u>Aqua Pennsylvania Wastewater Inc.</u>	Facility Name	<u>White Haven WWTP</u>
Applicant Address	<u>762 W Lancaster Avenue</u> <u>Bryn Mawr, PA 19010-3489</u>	Facility Address	<u>One Aqua Way</u> <u>White Haven, PA 18661</u>
Applicant Contact	<u>Gordon Miller</u>	Facility Contact	<u>Gordon Miller</u>
Applicant Phone	<u>(610) 520-6384</u>	Facility Phone	<u>(610) 520-6384</u>
Client ID	<u>62614</u>	Site ID	<u>257459</u>
SIC Code	<u>4939</u>	Municipality	<u>White Haven Borough</u>
SIC Description	<u>Trans. & Utilities - Combination Utilities, Nec</u>	County	<u>Luzerne</u>
Date Published in PA Bulletin	<u>July 22, 2019</u>	EPA Waived?	<u>Yes</u>
Comment Period End Date	<u>December 31, 2019</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Application for a renewal of an NPDES permit for discharge of treated Sewage</u>		

Internal Review and Recommendations

This is a **Redraft** NPDES Permit for 0.60 MGD nonmunicipal sewage treatment facility discharging to Lehigh River (Stream Code# 3335, HQ-CWF).

Public Comments:

Internal Comments:

- Proposed Copper IMAX WQBEL should not exceed the daily max WQBEL for an AFC constituent per SOP WQBELs for Toxics (short term excursions negatively impact aquatic life) and antidegradation considerations.
- Facility is in the process of upgrading the WWTP per DEP M&C. Aqua plans to use the facility as a Regional Sewage Sludge Dewatering facility for three of its local STPs after completion of WQM Permit No. 4017404-permitted upgrades (new receiving point for hauled-in sewage sludge; new screw dewatering unit included).
- 7/15/2019 Construction Certification for WQM Permit No. 4017403 (pipe extension to reduce SSO events) received. The collection system (only partly owned by Aqua) has been historically subject to SSO events.

Public Comment Period Extension: The 9/13/2019 Entech (Consultant) E-mail requested an extension to 12/31/2019 to allow for ten (10) sample results (at least 1 week apart) for each parameter (copper and zinc) and meeting the Department's Target Quantitation Limits (QLs) to calculate a Long Term Average Monthly Effluent Concentration (in addition to previously granted 8/23/2018 extension request to 9/13/2019). **Extension was granted.**

Approve	Return	Deny	Signatures	Date
X			James D. Berger James D. Berger, P.E. / Environmental Engineer	April 17, 2020
X			Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	6-5-20
NA			NA – signature not required for Redraft NPDES Permit. Bharat Patel, P.E. / Environmental Program Manager	

Internal Review and Recommendations

Copper Limits and Zinc Monitoring: 1/2/2020 Aqua (Entech Engineering) E-mail submittal contained copper and zinc sampling data (9/17/2019 – 11/26/2019 sampling, 10 sampling events, sampling day flows ranging from 0.1945 MGD – 0.4774 MGD). The DEP TOXCONC Spreadsheet (incorporated EPA-approved statistical methodology) calculated the Long Term Average Monthly Effluent Concentration (LTAMEC) and (daily) Coefficient of Variability (COV) using the supplied data. See attached TOXCONC and PENTOXSD output sheets:

- **Copper:** Sampling results ranged from 0.031 mg/l – 0.091 mg/l
 - Aqua-estimated arithmetic average: 0.053 mg/l
 - **LTAMEC: 0.0778755 mg/l**
 - **COV: 0.3462670**
 - **Originally Calculated WQBEL: 0.03939 mg/l (AFC)**
 - **Recalculated WQBEL: 0.030704 mg/l (AFC)**
- **Zinc:** Sampling results ranged from 0.041 mg/l – 0.125 mg/l
 - AQUA-estimated arithmetic average: 0.062 mg/l
 - **LTAMEC: 0.0874277 mg/l**
 - **COV: 0.3044684**
 - **Originally Calculated WQBEL: 0.3534 mg/l (AFC)**
 - **Recalculated WQBEL: 0.288825 mg/l (AFC).**
- **Permit Changes:** See TOXCONC Spreadsheet and PENTOXSD model output (attached).
 - **Copper:** LTAMEC and individual samples above recalculated WQBEL. Recalculated WQBELs in Redraft Permit. IMAX and Daily Max WQBELs are identical because the WQBEL is based on the Acute Fish Criterion (AFC).
 - **Zinc:** LTAMEC and individual samples less than 50% of recalculated WQBEL. Monitoring-only requirement retained.

Compliance History Update: No open violations per 4/17/2020 WMS query (open violation by client number). Facility completed a project to address previous SSO events in 2019.

Permit: PA0020435
Client ID: 62614
Client: All

Open Violations: 0

No data was found using the criteria entered. Please revise your choices and try again

Reviewer/Permit Engineer: James Berger

Facility: Aqua PA Wastewater Inc. White Haven WWTP
 NPDES #: PA0020435
 Outfall No: 001
 n (Samples/Month): 4

Parameter	Distribution Applied	Coefficient of Variation (daily)	Avg. Monthly
Copper (mg/L)	Lognormal	0.3462670	0.0778755
Zinc (mg/L)	Lognormal	0.3044684	0.0874277

PENTOXSD Analysis Results

Recommended Effluent Limitations

SWP Basin Stream Code: Stream Name:
 02C 3335 LEHIGH RIVER

RMI	Name	Permit Number	Disc Flow (mgd)
71.90	White Haven STP	PA0020435	0.6000

Parameter	Effluent Limit (µg/L)	Governing Criterion	Max. Daily Limit (µg/L)	Most Stringent	
				WQBEL (µg/L)	WQBEL Criterion
COPPER	30.704	AFC	43.186	30.704	AFC
ZINC	87.428	INPUT	118.917	288.825	AFC