

Astbury Water Technology, Inc Dan Fox General Manager North East Operations

June 25, 2024

To whom it concerns,

This letter serves as a response to the IDEM inspection on 5/14/2024

IN0037044 Tippecanoe Valley School

1.Maintenance

- A. Equipment repair and or PM documentation onsite— The document had apparently been removed from the benchsheet as we have converted to a new style format and inadvertently left it off. It will be included immediately. A copy is attached
- B. The digester decant line is rusted off—A submersible pump was purchased to allow decanting to continue until such time that the digester could be pumped down and assess repairs. Digester was cleaned on 6/19/2024 and repairs are scheduled for the week of 6/24.

2. Effluent limits

Effluent limit exceedances have been sporadic and caused by various issues ---

March 2024—Ammonia elevated due to 4 days of extremely low flows causing die off of biomass.

February 2024—Ammonia elevated due to 4 days of low flow followed by a high flow causing the issue.

January 2024—Aeration blower tripped breaker resulting in icing of aeration tank, frozen return lines, etc. Blower was restarted and heat was used to thaw return lines. This was the cause of the exceedances in January.

September thru November 2023--- Influent pumps in EQ tank failed and a sump pump was used to move sewage into plant, this method lacked the flow control needed to assist the plant with treatment. The duration was longer due to the issue of the pumps being rebuilt and parts were slow to arrive at motor shop.

June and July 2023—Low flows due to no school and very little activity at the school caused a biomass die off.

May 2023—Ammonia weekly max was 0.05 above max limit one time.



One final note- TVSC and Astbury will be contacting vendors to evaluate the WWTP
condition and prospective longevity to develop a plan for future improvements or
replacement.

Thank You,

Dan Fox

Astbury Water Technology Inc.

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Te le	Visual inspection of plant to make sure all mechanical equipment is operating.																											
All	Check to see if there is equal air distribution along entire length of tank			-				_											H			H						
All	Check to see that the sludge return pumps are returning sludge to the anoxic chamber.				_		\vdash	\vdash	\vdash		\vdash	\vdash	-	_	_			┢	Ͱ	_		T		-				Π
All	Check to see that MLSS recycle pumps are returning slidge to the appair chamber		┢		-				_		H	╀	\vdash					\dagger				T		-				
All	Check to see that the anoxic mixers are running.	T	t	╁	1	I	t	+	-	I	t	+	+	lacksquare	\downarrow		T	t	╁	1	İ	t	╁	╀			T	Τ
Contractor/All								\vdash			\vdash		_							-			┝					
Contractor/All	_								-		*		-				T	Н	├				\vdash		_			
Contractor	inspect effluent pipe leaving the plant for solids/sludge, clean accordingly		\vdash					\vdash									Ī	\vdash	\vdash	_			\vdash					
Contractor	Inspect discharge V notch for algae/debris. Clean as necessary.				-				_			\vdash	-						-			\vdash	\vdash					
TV Maint	Ensure the enclosure cooling fan is working for any blower that is running.											\vdash			_													
TV Maint	Ensure all UV lamps are working and clean quartz jackets.												\vdash		_													
All	Ensure the flowmeter is operating.		H	H	H		H	\vdash	L			H		L				r				r	H	ŀ	L	L	T	Γ
All	Clean the grease and floating solids from walls and water surface of aeration and settling tanks.							-																				
All	Check all equipment to see if it is operating property and if any fuses are blown or circuit breakers opened.			-										-														
All	Clean the growths and accumulated solids from weirs and pipe inlets.								,r																			
All	Check to see if diffusers and aerators are all working peoperly and are not plugged.											_																
All	Check to see if the airlift sludge return pump or skimmers are clogged or are about to clog.							_					-															
Contractor	Thirty minute settling test (Activated Studge Volume Test) - Collect one sample from aeration tank and one from the effluent from the settling tank.		0																									
Contractor	Run pH and run dissolved oxygen test.	П	Н	H	H			H	H		H	H	H	Ц	Ц			H	H				H	L				
Contractor	Inspect/clean sludge and solids from bottom of contact tank/UV chamber.									ž		H							-									
TV Maint	Check oil level in blowers (middle of sight glass) and top off if necessary.											-		_														
TV Maint	Clean trash and weeds from around the plant and equipment.													_									\vdash	_				
TV Maint	Grease blower motor bearings at 10,000 hours or 4 years maximum.																					-		_				
TV Maint	Check V-bells for proper tension and wear every 500 hours and replace when necessary.																							_				
TV Maint	Check air filters, clean, and replace if needed every 2,500 hours or at monitor indication.		\Box	\vdash	Н		H	H	Н		H		\vdash		Ш			\Box	Н			H	\vdash	Н				
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(Revised 06/15/16)