

Application Type Renewal
Facility Type Industrial
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL INDUSTRIAL WASTE (IW)
AND IW STORMWATER**

Application No. PA0208752
APS ID 976144
Authorization ID 1243090

Applicant and Facility Information

Applicant Name	<u>Daniel Brigham</u>	Facility Name	<u>Elk Creek Fisheries</u>
Applicant Address	<u>515 Millheim Narrows</u> <u>Rebersburg, PA 16872-8907</u>	Facility Address	<u>515 Millheim Narrows</u> <u>Rebersburg, PA 16872-8907</u>
Applicant Contact	<u>Daniel Brigham</u>	Facility Contact	<u></u>
Applicant Phone	<u>(814) 349-5814</u>	Facility Phone	<u></u>
Client ID	<u>115782</u>	Site ID	<u>259661</u>
SIC Code	<u>0273</u>	Municipality	<u>Miles Township</u>
SIC Description	<u>Agriculture - Animal Aquaculture</u>	County	<u>Centre</u>
Date Application Received	<u>August 27, 2018</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>September 11, 2018</u>	If No, Reason	<u></u>
Purpose of Application	<u>Renewal of existing NPDES permit</u>		

Summary of Review

The above applicant has submitted an NPDES renewal application for 4 existing discharges to Spring Bank Run (aka Unnamed Tributary to Elk Creek). The facility is an aquatic aquaculture operation that raises up to approximately 8,000 pounds of trout (brook, brown, and rainbow) annually. Only one outfall discharges at a time, each having the same maximum design flow to 2.0 MGD. A water flow chart of the facility is attached to this fact sheet.

Unless otherwise state, the Department's applicable SOPs were followed during the review of this application. Based on the following review, it is recommended the permit be drafted for renewal.

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.

Approve	Deny	Signatures	Date
		Chad A. Fabian / Project Manager	August 26, 2019
		Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001-004	Design Flow (MGD)	1
Latitude	40° 55' 18.00"	Longitude	-77° 28' 54.00"
Quad Name	Millheim	Quad Code	1126
Wastewater Description: Aquaculture Discharge			
Receiving Waters	Unnamed Tributary to Elk Creek (EV, MF) locally known as Spring Bank Run	Stream Code	18254
NHD Com ID	54963501	RMI	0.1
Drainage Area	9 mi ²	Yield (cfs/mi ²)	0.33
Q ₇₋₁₀ Flow (cfs)	1.5	Q ₇₋₁₀ Basis	USGS Streamstats and previous BPJ determination
Elevation (ft)	1200	Slope (ft/ft)	n/a
Watershed No.	6A (Penns Creek)	Chapter 93 Class.	EV, MF
Existing Use	EV	Existing Use Qualifier	n/a
Exceptions to Use	None	Exceptions to Criteria	n/a
Assessment Status	Impaired		
Cause(s) of Impairment	Flow Alterations		
Source(s) of Impairment	Hydromodification		
TMDL Status	Not forthcoming	Name	
Nearest Downstream Public Water Supply Intake		Millheim Borough, approximately 2 miles downstream on Elk Creek.	

Changes Since Last Permit Issuance: No changes have occurred since the last permit issuance.

Compliance History	
Summary of DMRs:	A review of the DMRs over the past 24 months show one effluent violation for TSS in the 1 st quarter sample of 2018. The result was 22 mg/l and the effluent limitation is 20 mg/l. This exceedance is attributed to an influent spring water TSS concentration of 66 mg/l.
Summary of Inspections:	The last inspection was performed by John Springer on 10/10/2018. No violations were reported during the inspection, except for the above noted effluent exceedance. No impacts on the receiving stream were observed during the inspection.

Water Quality-Based Limitations

The application requires sampling for parameters in pollutant group 1 of the respective renewal application. Therefore, a "Reasonable Potential Analysis" was not performed since no toxics are required to be sampled nor are any introduced at the facility. Additionally, WQM modeling was not performed based on non-detect sampling results for NH₃-N (0.56 mg/l detection limit) and BOD₅ (3.0 mg/l detection limit).

Technology Based Effluent Limitations

Per the Department's SOP for establishing effluent limitations for individual industrial permits, the limits and monitoring requirements contained in the PAG-11 General Permit for aquaculture discharges should be considered applicable standards for use in individual aquaculture NPDES permits.

The parameters and monitoring frequencies for the respective PAG-11 are as follows:

Parameter	Effluent Limitations				Monitoring Requirements	
	Mass	Concentrations			Minimum ⁽¹⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Minimum	Maximum Daily	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	1/week	Estimated ⁽⁴⁾
BOD ₅ (mg/l) ⁽²⁾	XXX	XXX	10	XXX	1/quarter	Grab
Total Suspended Solids (mg/l) ⁽²⁾	XXX	XXX	20	XXX	1/quarter	Grab
Total Nitrogen (mg/l) ^{(2), (3)}	XXX	XXX	20	XXX	1/quarter	Grab
Ammonia-Nitrogen (mg/l)	XXX	XXX	Report	XXX	1/quarter	Grab
Total Phosphorus (mg/l)	XXX	XXX	Report	XXX	1/quarter	Grab
pH (S.U.)	XXX	6.0	XXX	9.0	1/week	Grab
Dissolved Oxygen (mg/l)	XXX	6.0	XXX	XXX	1/week	Grab

Footnotes

- (1) This is the minimum number of sampling events required. Permittees are encouraged, and it may be advantageous in demonstrating compliance, to perform more than the minimum number of sampling events.
- (2) For BOD₅, Total Suspended Solids and Total Nitrogen, the specified effluent limitations are “net” limitations. The permittee shall monitor and report influent and effluent results for these parameters and subtract influent concentrations from effluent concentrations in order to demonstrate compliance.
- (3) Total Nitrogen is the sum of Total Kjeldahl Nitrogen (TKN), Nitrite-Nitrogen (NO₂-N) and Nitrate-Nitrogen (NO₃-N) concentrations in the same sample.
- (4) To estimate effluent flow rate, use any accurate measurement technique based on a technical evaluation of the sources contributing to the discharge. The use of a flow meter or similar technology to measure flow rate is preferred.

Anti-Backsliding

No limitation established in the previous permit has been relaxed or removed within this permit.

Proposed Effluent Limitations and Monitoring Requirements

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

Outfalls 001-004, 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	Average Weekly	Minimum	Daily Maximum	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/month	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	XXX	1/month	Grab
DO	XXX	XXX	6.0 Daily Min	XXX	XXX	XXX	1/month	Grab
BOD ₅ ⁽²⁾	XXX	XXX	XXX	10.0	XXX	XXX	1/quarter	Grab
TSS ⁽²⁾	XXX	XXX	XXX	20.0	XXX	XXX	1/month	Grab
Total Nitrogen ^{(2), (3)}	XXX	XXX	XXX	20.0	XXX	XXX	1/quarter	Grab
Ammonia-Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	XXX	1/quarter	Grab

Compliance Sampling Location: 001-004

Other Comments:

-The applicable footnotes in the above table can be found on page 3 of this fact sheet.

-The above effluent limitations and monitoring requirements are the same as the existing permit, except for Ammonia Nitrogen and Total Phosphorus. The existing monitoring frequencies for the respective parameters is 1/year. The PAG-11 recommended sampling frequency is 1/quarter. Therefore, sampling frequencies for Ammonia Nitrogen and Total Phosphorus have been changed to 1/quarter, per the PAG-11.

It is recommended the permit be drafted as described above.