Central Office CLEAN WATER PROGRAM

Application Type	Renewal	NPDES PERMI		Application No.	PA0270784
Facility Type	Pesticides	-	CIDES	APS ID	842101
Permit Type	Individual		T ESTICIDES		1287898
		Applicant and Fa	cility Information		
Applicant Name	PA Fish & E	Boat Comm	Facility Name	Pfbc Statewide Algicide I Fish Cntrl Treatment Are	
Applicant Address	1735 Shiloh	Road	Facility Address	1735 Shiloh Road	
	State Colleg	e, PA 16801-8400		State College, PA 16801-8	400
Applicant Contact	Brian Niewir	nski	Facility Contact	Brian Niewinski	
Applicant Phone	(814) 355-48	337	Facility Phone	(814) 353-2224	
Client ID	87637		Site ID	759060	
SIC Code	0782,0921		Municipality	Statewide	
SIC Description	0	Fish Hatcheries and Agriculture - Lawn and Garden	County	Statewide	
Date Application Re	ceived Au	gust 30, 2019	WQM Required	No	
Date Application Acc	cepted <u>Se</u>	otember 11, 2019	EPA Waived	Yes	
Purpose of Applicati	on <u>Re</u>	newal of an individual NPDES Pe	esticides and Joint 91.3	8 Permit	

Internal Review and Recommendations

The Pennsylvania Fish & Boat Commission (PFBC) applied on August 30, 2019 for the renewal of an individual NPDES Permit for Discharges from the Application of Pesticides and coverage under a 91.38 Joint Permit. The use of pesticides at fish production ponds (including all State Fish Hatcheries) is managed by the Fish Production Services Program Chief's office located at 1735 Shiloh Road, State College, PA. Pesticides application within Rights of Way to keep access areas clutter free and safe for recreational access is managed by the Construction and Maintenance Division Chief's office located at 450 Robinson Lane, Bellefonte, PA. The PFBC currently holds two separate permits for the application of pesticides: an NPDES individual permit for pesticides application, and a Chapter 91.38 Joint Permit for the use of algicides, herbicides, and fish control chemicals. With this renewal DEP will issue an NPDES permit that includes the conditions of the 91.38 Joint Permit. The appropriate language addressing the conditions of the Chapter 91.38 permit will be incorporated into the renewed NPDES permit under Part C. Upon issuance of a final NPDES permit, the existing Joint 91.38 Permit No. 9915801 will be revoked.

This permit authorizes the PFBC to use pesticides to control a variety of weeds and algae in fish hatcheries and state owned lakes. The goal for controlling vegetation in production ponds is to maximize the number of fish that can be harvested and used for stocking recreational fishing waters. Pesticides are also used to aid in clearing and maintaining access areas to lakes for recreational use. Pesticides targeting specific plant species are used to prevent excessive vegetation from blocking public access to waters and to maintain aesthetics for recreational boaters and fishers. A Pesticides Discharge Management

Approve	Deny	Signatures	Date
N		/s/	
v		/ Zachary Steckler, E.I.T.	December 13, 2019
		/s/	
		/ Sean M Furjanic, P.E. Division of NPDES Permitting	December 19, 2019

Internal Review and Recommendations

Plan (PDMP) was submitted with the application and includes the required elements listed in the instructions for the Individual Pesticides permit.

A query for any open violations was completed on WMS and returned no results.

Proposed Treatment Areas, Waterbodies, and Pesticides

The application is proposing the use of 14 different pesticides as needed over 94 total treatment sites throughout the Commonwealth (13 fish hatcheries and 81 recreation and maintenance access areas). See Attachments A and B for a full list of treatment site locations, areas, frequencies, receiving waters, and Chapter 93 classifications. The treatment sites numbered 1 through 13 are all state fish hatcheries, and numbers 14 through 94 are access areas. Attachment C shows the proposed pesticide chemicals as provided with the application package. It should be noted that the maximum dosage listed in the table in Attachment C represents the maximum total annual application rate. Attachment D shows the specific application areas, depths, and dosages for treatment areas 1 through 4, which are the only state fish hatcheries under this permit application at which they are proposing to apply pesticides directly to the fish production ponds. For all pesticides approved for use under this permit, all specifications for maximum application rate per treatment or time between treatments that are listed on the product label must be followed.

PNDI searches were completed for each proposed treatment area, with 51 sites returning Conservation and Avoidance Measures for consideration or Potential Impacts with further review needed. At this time, all further agency review responses have been received and all conditions satisfied.

Pesticides, maximum application doses, and treatment areas identified in the permit application are authorized after issuance of permit. The permittee must submit to DEP a request for approval for any change in the pesticide use pattern for an authorized treatment area, a change in the pesticide (active ingredient) that will be used for a treatment area, or an increase in the planned maximum dosage of pesticide that will be used in a treatment area. This request for approval may be submitted in lieu of a formal permit amendment. The permittee shall submit requests at least 30 days in advance of anticipated changes, and requests should include all applicable information regarding the pesticide application, treatment area and frequency, surface waters affected, and all other items as listed in part C.VI.A. of the NPDES Individual Pesticide permit, Authorized Pesticides and Application Rates. After a request for approval is submitted, permittees may implement the proposed changes after approval from DEP or after a period of 30 days.

Anti-Degradation

The water bodies listed in Table 1 below are classified as HQ/EV, and the Antidegradation Module (3800-PM-BCW0025d) was submitted with the application.

Treatment Area (No.)	Water Body Name	HQ or EV	Pesticide Name(s)	Planned Max Annual Dose	Units
5	Spring Creek	HQ	Rodeo	6.0	pints/acre
6	Spring Creek	HQ	Reward Diquat	2.0	gallons/acre
53	Children's Lake	HQ	Snapshot 2.5 TG	600.0	lbs./acre
22	Dutch Fork Lake	HQ	Roundup Custom	8.0	quarts/acre
25	Hankins Pond	HQ	Turflon II Amine Aquasweep	9.0	lbs./acre
64	Harveys Lake	HQ	Roundup Custom	8.0	quarts/acre
26	Hemlock Lake	HQ	Snapshot 2.5 TG	600.0	lbs./acre
30	Hunters Lake	EV	Turflon II Amine Aquasweep	9.0	lbs./acre
10	Yellow Breeches Creek	HQ	Aquaneat	6.0	pints/acre
33	Kyle Lake	HQ	Roundup Custom	8.0	quarts/acre
65	Lake Wallenpaupack	HQ	Turflon II Amine Aquasweep	9.0	lbs./acre
70	Long Pine Run Reservoir Access	HQ	Snapshot 2.5 TG	600.0	lbs./acre
36	Lower Woods Pond	HQ	Turflon II Amine Aquasweep	9.0	lbs./acre

Table 1 – Treatment Areas Draining to HQ/EV Waterbodies

	Internal Review and Recommendations										
74	Opossum Lake Access	HQ	HQ Roundup Custom		quarts/acre						
12	Oswayo Creek	HQ	Reward Diquat	2.0	gallons/acre						
13	Logan Branch	HQ	Cutrine Ultra	3.0	gallons/acre-ft						
2	WB Lackawaxen River	HQ	Reward Diquat	2.0	gallons/acre						
42	Rose Valley Lake	EV	Polaris	6.0	pints/acre						
45	Struble Lake	HQ	Turflon II Amine Aquasweep	9.0	lbs./acre						
7	Fishing Creek	HQ	Rodeo	6.0	pints/acre						
48	Upper Woods Pond	HQ	Snapshot 2.5 TG	600.0	lbs./acre						
50	White Oak Pond	HQ	Turflon II Amine Aquasweep	9.0	lbs./acre						
94	Yellow Breeches Creek	HQ	Roundup Custom	8.0	quarts/acre						

DEP requested more information regarding the use of Snapshot 2.5 TG in HQ/EV watersheds. DEP also requested more detail on the specific application of each proposed pesticide and clarification of the application types "direct" and "water's edge". The PFBC responded with the requested information and it was stated that no chemicals considered toxic to aquatic life will be applied directly to surface waters or within applicable buffer zones along bank areas. The term "water's edge" refers to pesticide applications that occur within 35 feet from surface waters (top of bank) unless there is no vegetated buffer, in which case "water's edge" means pesticide applications that occur within 100 feet from surface waters. For all proposed pesticides, the appropriate application method, maximum individual and annual dosage limits, and time between treatments shall be followed as stated on the product label.

The application's antidegradation analysis explains that the Fish and Boat Commission selects pesticides to use in its production ponds and access areas based on their ability to target specific species of vegetation and for being relatively non-toxic to non-target species. They also attempt to select non-conservative chemicals for use in or near waters of the Commonwealth. Alternative pest management options were evaluated, including no action, preventative measures such as pond linings, mechanical or manual removal, and cultural and biological options. All alternative methods were ruled out as impractical, cost prohibitive, or too labor intensive. The Pesticide Discharge Management Plan states that PFBC staff members attend regular meetings and trainings to review spill response and adverse incident reporting procedures. PFBC staff will follow all product label specifications and dosage limits when applying pesticides.

Changes from Previous Permit

With the submission of this permit renewal application the PFBC is proposing to increase the number of permitted treatment areas from 51 to 94 statewide; 6 of the new treatment areas are in HQ/EV watersheds and are listed in Table 1 above. They are also proposing the use of 6 additional pesticides across all treatment areas. New pesticides are being proposed for this permit in an attempt to target specific species of vegetation present across all proposed treatment sites.

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.

			ent Area Inform		11/11/16/2020		
		Trea	itment Area Tab	1		1.415.4	
Treatment Area (No.)	Municipality	County	Pesticide Use Pattern	Area or Length of Treatment	Treatment Frequency up to 10	Latitude (Decimal Degrees)	Longitude (Decimal Degrees
1	Linesville Hatchery, Linesville, PA	Crawford	3	60 acres	times/year	41.64583	-80.42748
2	Pleasant Mount Hatchery, Pleasant Mount, PA	Wayne	3	20 acres	up to 10 times/year	41.73972	-75.44806
3	Tionesta Hatchery, Tionesta, PA	Forest	3	25 acres	up to 10 times/year	41.50756	-79.44988
4	Union City Hatchery, Union City, PA	Erie	3	30 acres	up to 10 times/year	41.9075	-79.81782
5	Bellefonte & Upper Spring Creek Hatchery, Bellefonte, PA	Centre	3	50 acres	up to 10 times/year	40.88273	-77.79402
10	ar werde haren deveneden en	200	100	1000	up to 10	2002533055	60//382/60/36
6	Benner Spring Hatchery, State College, PA	Centre	3	20 acres	times/year up to 10	40.85762	-77.81694
7	Tylersville Hatchery, Tylersville, PA	Clinton	3	10 acres	times/year up to 10	40.98244	-77.47062
8	Corry Hatchery, Corry, PA	Erie	3	S acres	times/year	41.93019	-79.67036
9	Fairview Hatchery, Fairview, PA	Erie	3	10 acres	times/year	42.04262	-80.2763
					up to 10		
10	Huntsdale Hatchery, Carlisle, PA	Cumberland	3	40 acres	times/year up to 10	40.10306	-77.30833
11	Reynoldsdale Hatchery New Paris, PA	Bedford	3	12 acres	times/year up to 10	40.1575	-78.58
12	Oswayo Hatchery, Oswayo, PA	Patter	3	10 acres	times/year	41.92444	-78.00805
13	Pleasant Gap Hatchery Pleasant Gap, PA	Centre	3	10 acres	up to 10 times/year	40.86878	-77.7575
14	Amity Hall	Perry	3	50 feet	2 times/year	40.43111	-77.01278
15	Apple Tree Road	Luzerne	3	50 feet	2 times/year	41.38778	-75.82355
16	Bald Eagle	Clinton	3	400 feet	2 times/year	41.11194	-77.50194
17	Beechwood Lake	Tioga	3	50 feet	2 times/year	41.85276	-77.5097
18	Briar Creek Lake	Columbia	3	50 feet	2 times/year	41.06739	-76.28198
19	Cloe Lake	Jefferson	3	50 feet	2 times/year	40.94977	-78.90559
20	Colyer Lake	Centre	3	100 feet	2 times/year	40.77809	-77.68373
21	Donegal Lake	Westmoreland	3	100 feet	2 times/year	40.13497	-79.37073
22	Dutch Fork Lake	Washington	3	100 feet	2 times/year	40.1426	-80.46926
23	Glade Run Lake	Butler	3	50 feet	2 times/year	40.71543	-79.90036
24	Greenwood	Perry	3	S0 feet	Z times/year	40.53056	-77.14194
25	Hankins Pond	Wayne	3	50 feet	2 times/year	41.71967	-75.39434
26	Hemlock Lake	Indiana	3	100 feet	2 times/year	40.86364	-78.88322
27	Hereford Manor Lake	Beaver	3	50 feet	2 times/year	40.81201	-80.16236
28	High Point Lake	Somerset	3	100 feet	2 times/year	39.77926	-79.21821
29	Hoovers Island	Snyder	3	50 feet	2 times/year	40.75028	-76.85806
30	Hunters Lake	Sullivan	3	50 feet	2 times/year	41.38399	-76.62307
31	Kaercher Lake	Berks	3	150 feet	2 times/year	40.56043	-75.96313

ATTACHMENT A

32	Kahle Lake	Clarion	3	100 feet	2 times/year	41.23201	-79.64707
33	Kyle Lake	Jefferson	3	50 feet	2 times/year	41.15902	-78.84161
34	Leaser Lake	Lehigh	3	150 feet	2 times/year	40.67099	-75.8334
35	Lily Lake	Luzerne	3	50 feet	2 times/year	41.13832	-76.08359
36	Lower Woods Pond	Wayne	3	50 feet	2 times/year	41.73649	-75.27027
37	Mauch Chunk Lake	Carbon	3	100 feet	2 times/year	40.83557	-75.81777
38	Minsi Lake	Northampton	3	100 feet	2 times/year	40.91385	-75.17824
39	Montgomery Ferry	Perry	3	50 feet	2 times/year	40.50333	-76.97556
40	Lake Nessmuk	Tioga	3	50 feet	2 times/year	41.72711	-77.28879
41	Newton Hamilton	Mifflin	3	50 feet	2 times/year	40.3925	-77.83417
42	Rose Valley Lake	Lycoming	3	150 feet	2 times/year	41.39421	-76.99842
43	Lake Somerset	Somerset	3	100 feet	2 times/year	40.03143	-79.06191
44	Stevens Lake	Wyoming	3	50 feet	2 times/year	41.59917	-75.94278
45	Struble Lake	Chester	3	50 feet	2 times/year	40.11481	-75.85934
46	Tamarack Lake	Crawford	3	350 feet	2 times/year	41.59709	-80.09428
47	Union City Res.	Erie	3	50 feet	2 times/year	41.91306	-79.81444
48	Upper Woods Pond	Wayne	3	50 feet	2 times/year	41.7602	-75.27617
49	Walker Lake	Snyder	3	50 feet	2 times/year	40.80432	-77.18059
50	White Oak Pond	Wayne	3	50 feet	2 times/year	41.64454	-75.37664
51	Whites Ferry	Wyoming	3	50 feet	2 times/year	41.477628	-75.905522
52	Auburn Access	Schuylkill	3	50 feet	2 times/year	40.6021	-76.0883
53	Children's (Boiling Springs) Lake	Cumberland	3	50 feet	2 times/year	40.14722	-77.12528
54	Conewago Creek Access	Yark	3	S0 feet	2 times/year	40.11208	-76.70942
55	East Bangor Lake	Northampton	3	50 feet	2 times/year	40.884243	-75.185868
56	Epler Access	Berks	3	50 feet	2 times/year	40.39654	-75.9736
57	Falmouth Access	Lancaster	3	50 feet	2 times/year	40.11917	-76.70972
58	Five Locks Access	Berks	3	50 feet	2 times/year	40.5225	-75.99778
59	Fort Hunter Access	Dauphin	3	50 feet	2 times/year	40.34354	-76.91119
60	Goldsboro Access	York	3	50 feet	2 times/year	40.16111	-76.74889
61	Good Hope Access	Cumberland	3	50 feet	2 times/year	40.25889	-76.97639
62	Halifax Access	Dauphin	3	50 feet	2 times/year	40.49777	-76.94654
63	Harris Pond	Luzerne	3	50 feet	2 times/year	41.29294	-76.13214
64	Harveys Lake	Luzerne	3	50 feet	2 times/year	41.36429	-76.05765

65	Lake Wallenpaupack	Wayne	3	350 feet	2 times/year	41.45972	-75.19
66	Letterkenny Reservoir Access	Franklin	3	50 feet	2 times/year	40.112008	-77.696042
67	Levittown Lake Access	Bucks	3	50 feet	2 times/year	40.1471	-74.81868
68	Lily Lake	Luzerne	3	50 feet	2 times/year	41.13832	-76.08359
69	Long Arm Dam Access (Sheppard Reservoir)	York	3	50 feet	2 times/year	39.751214	-76.990709
70	Long Pine Run Reservoir Access	Adams	3	50 feet	2 times/year	39.93722	-77.44583
71	Middletown Reservoir Access	Dauphin	3	50 feet	2 times/year	40.18611	-76.73306
72	Muddy Creek Access	York	3	50 feet	2 times/year	40.96326	-80.12881
73	Narrowsburg Access	Wayne	3	50 feet	2 times/year	41.61056	-75.06694
74	Opossum Lake Access	Cumberland	3	50 feet	2 times/year	40.22922	-77.27767
75	Oxbow Lake	Wyoming	3	50 feet	2 times/year	41.60972	-75.89417
76	Phoenbrville Access	Chester	3	50 feet	2 times/year	40.15866	-75.51092
77	Riegelsville Access	Bucks	3	50 feet	2 times/year	40.581805	-75.196082
78	Route 33 Access	Northampton	з	50 feet	2 times/year	40.642948	-75.284232
79	Sandts Eddy Access	Northampton	3	S0 feet	2 times/year	40.75889	-75.18722
80	Sayre Access	Bradford	3	S0 feet	2 times/year	41.99583	-76.47333
81	Sheidy Road Access	Berks	3	S0 feet	2 times/year	40.41186	-76.08792
82	Slackwater-Rockhill Access	Lancaster	3	S0 feet	2 times/year	39.98333	-76.35722
83	South Pottstown Access	Chester	3	50 feet	2 times/year	40.24111	+75.65
84	Speedwell Forge Lake Access	Lancaster	3	50 feet	2 times/year	40.2114	-76.31917
85	Terrytown Access	Bradford	3	50 feet	2 times/year	41.69444	-76.28194
86	Tunkhannock Access	Wyoming	3	50 feet	2 times/year	40.461349	-79.368321
87	Upper Black Eddy Access	Bucks	3	50 feet	Z times/year	40.565323	-75.09874
88	Waterworks Access	Lebanon	3	50 feet	2 times/year	40.37361	-76.53611
89	Waynesboro Reservoir Access	Adams	3	50 feet	2 times/year	39.81806	-77.45528
90	Winola Lake	Wyoming	з	50 feet	2 times/year	41.51006	-75.84285
91	Wrightsville Access	York	3	50 feet	2 times/year	40.02394	-76.52464
92	Wysax Access	Bradford	3	50 feet	2 times/year	41.753801	-76.41069
93	Yardley Access	Bucks	3	50 feet	2 times/year	40.25278	-74.84556
94	Yellow Breeches Easement	Cumberland	3	50 feet	2 times/year	40.184627	-76.912136

ATTACHMENT B

Surface Water Table									
Treatment	Surface Water Name		Ch 02 Ch						
Area (No.)		Application Type Direct, Water's Edge	Ch 93 Class	Pesticide Impairmen					
2	Pymatuning Reservoir WB Lackawaxen River	Direct, Water's Edge	WWF	No					
3	and the second se	the second s	HQ-CWF	No					
	Allegheny River	Direct, Water's Edge	WWF	No					
4	Bentley Run	Direct, Water's Edge	CWF	No					
5	Spring Creek	Direct, Water's Edge	HQ-CWF	No					
6	Spring Creek	Direct, Water's Edge	HQ-CWF	No					
7	Fishing Creek	Direct, Water's Edge	HQ-CWF	No					
8	UNT to SB French Creek	Direct, Water's Edge	CWF	No					
9	UNT to Trout Run	Direct, Water's Edge	CWF	No					
10	Yellow Breeches Creek	Direct, Water's Edge	HQ-CWF	No					
11	Dunning Creek	Direct, Water's Edge	WWF	No					
12	Oswayo Creek	Direct, Water's Edge	HQ-CWF	No					
13	Logan Branch	Direct, Water's Edge	HQ-CWF	No					
14	Juniata River	Water's Edge	WWF	No					
15	Susquehanna River	Water's Edge	WWF	No					
16	Bald Eagle Creek	Water's Edge	CWF	No					
17	Beechwood Lake	Water's Edge	TSF	No					
18	Briar Creek Lake	Water's Edge	CWF	No					
19	Cloe Lake	Water's Edge	CWF	No					
20	Colyer Lake	Water's Edge	CWF	No					
21	Donegal Lake	Water's Edge	TSF	No					
22	Dutch Fork Lake	Water's Edge	HQ-WWF	No					
23	Glade Run Lake	Water's Edge	WWF	No					
24	Juniata River	Water's Edge	WWF	No					
25	Hankins Pond	Water's Edge	HQ-CWF	No					
26	Hemlock Lake	Water's Edge	HQ-CWF	No					
27	Hereford Manor Lake	Water's Edge	WWF	No					
28	High Point Lake	Water's Edge	CWF	No					
29	Susquehanna River	Water's Edge	WWF	No					
30	Hunters Lake	Water's Edge	EV	No					
31	Kaercher Lake	Water's Edge	WWF	No					
32	Kahle Lake	Water's Edge	CWF	No					
33	Kyle Lake	Water's Edge	HQ-CWF	No					
34	Leasure Lake	Water's Edge	CWF	No					
35	Lily Lake		CWF						
36	Lower Woods Pond	Water's Edge		No					
		Water's Edge	HQ-CWF	No					
37	Mauch Chunk Lake	Water's Edge	CWF	No					
38	Minsi Lake	Water's Edge	CWF	No					
39	Susquehanna River	Water's Edge	WWF	No					
40	Nesmuck Lake	Water's Edge	CWF	No					
41	Juniata River	Water's Edge	WWF	No					
42	Rose Valley Lake	Water's Edge	EV	No					
43	Somerset Lake	Water's Edge	WWF	No					

44	Stevens Lake	Water's Edge	CWF	No
45	Struble Lake	Water's Edge	HQ-TSF	No
46	Tamarack Lake	Water's Edge	WWF	No
47	Union City Res.	Water's Edge	CWF	No
48	Upper Woods Pond	Water's Edge	HQ-CWF	No
49	Walker Lake	Water's Edge	TSF	No
50	White Oak Pond	Water's Edge	HQ-CWF	No
51	Susquehanna River	Water's Edge	WWF	No
52	Schuylkill River	Water's Edge	CWF	No
53	Children's Lake	Water's Edge	HQ-CWF	No
54	Susquehanna River	Water's Edge	WWF	No
55	East Bangor Lake	Water's Edge	CWF	No
56	Schuylkill River	Water's Edge	WWF	No
57	Conestoga River	Water's Edge	WWF	No
58	Schuylkill River	Water's Edge	WWF	No
59	Susquehanna River	Water's Edge	WWF	No
60	Susquehanna River	Water's Edge	WWF	No
61	Conodoguinet Creek	Water's Edge	WWF	No
62	Susquehanna River	Water's Edge	WWF	No
63	Harris Pond	Water's Edge	CWF	No
64	Harveys Lake	Water's Edge	HQ-CWF	No
65	Lake Wallenpaupack	Water's Edge	HQ-CWF	No
66	Letterkenny Reservoir	Water's Edge	WWF	No
67	Levittown Lake	Water's Edge	TSF	No
68	Líly Lake	Water's Edge	CWF	No
69	Sheppard Reservoir	Water's Edge	WWF	No
70	Long Pine Run Reservoir	Water's Edge	HQ-CWF	No
71	Middletown Reservoir	Water's Edge	WWF	No
72	Susquehanna River	Water's Edge	WWF	No
73	Delaware River	Water's Edge	WWF	No
74	Opossum Lake	Water's Edge	HQ-TSF	No
75	Oxbow Lake	Water's Edge	CWF	No
76	Schuylkill River	Water's Edge	WWF	No
77	Delaware River	Water's Edge	WWF	No
78	Lehigh River	Water's Edge	WWF	No
79	Delaware River	Water's Edge	WWF	No
80	Susquehanna River	Water's Edge	WWF	No
81	Schuylkill River	Water's Edge	WWF	No
82	Conestoga River	Water's Edge	WWF	No
83	Schuylkill River	Water's Edge	WWF	No
84	Speedwell Forge Lake	Water's Edge	WWF	No
85	Susquehanna River	Water's Edge	WWF	No
86	Susquehanna River	Water's Edge	WWF	No
87	Delaware River	Water's Edge	WWF	No
88	Swatara Creek	Water's Edge	WWF	No
89	Waynesboro Reservoir	Water's Edge	CWF	No
90	Winola Lake	Water's Edge	CWF	No

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91	Susquehanna River	Water's Edge	WWF	No
92	Susquehanna River	Water's Edge	WWF	No
93	Delaware River	Water's Edge	WWF	No
94	Yellow Breeches Creek	Water's Edge	HQ-CWF	No

ATTACHMENT C

	Proposed Treatment Information									
Name	Manufacturer	Approved for Aquatic?	EPA Reg. #	Planned Max Annual Dose	Units	No. Treatments/year	Target Pest(s)	Used By		
Rodeo	Dow AgroSciences	Yes	62719- 324	6.0	pints/acre	Several	Spatterdock, Waterprimrose	Access Areas		
Reward Diquat	Syngenta	Yes	100-1091	2.0	gallons/acre	Several	Pondweeds, Milfoil, Najas, Elodea, Coontail, Brittle Naiad, Hydrilla	Hatcheries		
Cutrine Plus Granular	Applied Biochemists	Yes	8959-12	60.0	lbs./acre	Several	Algae, Filamentous Algae	Hatcheries		
Cutrine Ultra	Applied Biochemists	Yes	8959-53	3.0	gallons/acre- foot	Several	Algae, Filamentous Algae	Hatcheries		
Copper Sulfate	Applied Biochemists	Yes	56576-1- 8959	2.7	lbs./acre-foot	Several	Filamentous Algae	Hatcheries		
Aquaneat	NuFarm	Yes	228-365	6.0	pints/acre	Several	Narrowleaf Cattail, Phragmites	Access Areas & Hatcheries		
Aquashade	Applied Biochemists	Yes	33068-1	2.0	ppm	Several	Leafy Pondweed, Chara, Slebder Naiad, Hydrilla	Hatcheries		
Cutrine Plus	Applied Biochemists	Yes	8959-10	18.0	gallons/surface acre	Several	Filamentous Algae, Bluegreen Algae	Hatcheries		
Snapshot 2.5 TG	Dow AgroSciences	No	62719- 175	600.0	lbs./acre	Several	Broadleaf Weeds and Annual Grasses	Access Areas		
Turflon II Amine Aquasweep	NuFarm	Yes	228-316	9.0	lbs./acre	Several	Annual and Perennial Broadleaf Weeds	Access Areas		
Polaris	NuFarm	Yes	228-534	6.0	pints/acre	Several	Bedstraw, Bishopweed, Buttercup, Carolina geranium, Fescue, Foxtail, Little barley, Seedling Johnsongrass, Wild Carrot, White Clover, Yellow woodsorrel	Access Areas		

Approve	Deny	Signatures	Date
		/s/	
v		/ Zachary Steckler, E.I.T.	December 13, 2019
\checkmark		/s/	December 10, 2010
		/ Sean M Furjanic, P.E. Division of NPDES Permitting	December 19, 2019

NPDES Permit No. PA0270784

Tribune	Syngenta	Yes	100-1390	2.0	gallons/surface acre	Several	Water Lettuce, Water Hyacinth, Duckweed, Salvenia, Pennywort, Frog's Bit, Cattails	Access Areas
SaniDate 5.0	Bio Safe				gallons/acre-			
(Green Clean)	Systems	Yes	70299-19	28.5	foot	Several	Weeds and Algae	Hatcheries
							Annual and Perennial Weeds and	
Roundup Custom	Monsanto Co.	Yes	524-343	8	quarts/acre	Several	Woody Brush and Trees	Hatcheries

ATTACHMENT D

Approve	Deny	Signatures	Date
\checkmark		/s/	December 12, 2010
		/ Zachary Steckler, E.I.T.	December 13, 2019
\checkmark		/s/ / Sean M Furjanic, P.E. Division of NPDES Permitting	December 19, 2019

Water Body:

Avg. Depth:

4.0 feet

Municipality:	Union City		County:	Erie	Total Are	a: 0.25 acres
Water Body:	Pond #1 U	nion City Fish Hatchery	Receiving Stream	: Bentley Ru	n Avg. Dep	oth: 4.0 feet
		т	REATMENT INFORM	ATION		
Chem	ical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Aquashade (EPA Reg. No.	33068-1)	32 oz. /acre foot.	0.25 acres	4.0 feet	1 st -0.24 gallons 2 – 7 th -0.20 gallons	7
Reward (EPA Reg. No.	10182-404)	2.0 gallons/ surface acre	0.25 acres	4.0 feet	0.50 gallons	2
Curtrine-Plus G (EPA Reg. No.		60 lbs/ acre	0.25 acres	4.0 feet	6.5 lbs.	2
Curtrine-Ultra (EPA Reg. No. i	8959-53)	12 gallons/surface acre *	0.25 acres	4.0 feet	0.50 gallons	2

TREATMENT INFORMATION								
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments			
Aquashade (EPA Reg. No. 33068-1)	32 oz. /acre foot.	0.50 acres	4.0 feet	1 st -0.48 gallons 2 – 7 th -0.24 gallons	7			
Reward (EPA Reg. No. 10182-404)	2.0 gallons/ surface acre	0.50 acres	4.0 feet	0.75 gallons	2			
Curtrine-Plus Granular (EPA Reg. No. 8959-12)	60 lbs/ acre	0.50 acres	4.0 feet	15 lbs	2			
Curtrine-Ultra (EPA Reg. No. 8959-53)	12 gallons/surface acre *	0.50 acres	4.0 feet	1.4 gallons	2			

Pond # 2 Union City Fish Hatchery Receiving Stream: Bentley Run

Municipality:	Union City	County:	Erie	Total Area:	0.60 acres
Water Body:	Pond # 3 Union City Fish Hatchery	Receiving Stream:	Bentley Run	Avg. Depth:	4.0 feet

TREATMENT INFORMATION								
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments			
Aquashade (EPA Reg. No. 33068-1)	32 oz. /acre foot.	0.60 acres	4.0 feet	1 st -0.58 gallons 2 – 7 th -0.29 gallons	7			
Reward (EPA Reg. No. 10182-404)	2.0 gallons/ surface acre	0.60 acres	4.0 feet	1.2 gallons	2			
Curtrine-Plus Granular (EPA Reg. No. 8959-12)	60 lbs/ acre	0.60 acres	4.0 feet	15 lbs	2			
Curtrine-Ultra (EPA Reg. No. 8959-53)	12 gallons/surface acre *	0.60 acres	4.0 feet	1.4 gallons	2			

Municipality: Water Body:	Union City Pond # 4 U	nion City Fish Hatchery	County: Receiving Stream:	Erie Bentley Ru	Total Area n Avg. Dep	
		TF	REATMENT INFORM	ATION		
Chem	ical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Aquashade (EPA Reg. No.	33068-1)	32 oz. /acre foot.	0.25 acres	4.0 feet	1 st -0.24 gallons 2 - 7 th -0.20 gallons	7
Reward (EPA Reg. No.	10182-404)	2.0 gallons/ surface acre	0.25 acres	4.0 feet	0.50 gallons	2
Curtrine-Plus G (EPA Reg. No.		60 lbs/ acre	0.25 acres	4.0 feet	7.0 lbs	2
Curtrine-Ultra (EPA Reg. No.	8959-53)	12 gallons/surface acre *	0.25 acres	4.0 feet	0.70 gallons	2

Municipality:	Union City	County:	Erie	Total Area:	0.30 acres
Water Body:	Pond # 5 Union City Fish Hatchery	Receiving Stream:	Bentley Run	Avg. Depth:	4.0 feet

TREATMENT INFORMATION								
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments			
Aquashade (EPA Reg. No. 33068-1)	32 oz. /acre foot.	0.30 acres	4.0 feet	1 st -0.30 gallons 2 – 7 th -0.15 gallons	7			
Reward (EPA Reg. No. 10182-404)	2.0 gallons/ surface acre	0.30 acres	4.0 feet	0.59 gallons	2			
Curtrine-Plus Granular (EPA Reg. No. 8959-12)	60 lbs/ acre	0.30 acres	4.0 feet	7.5 lbs	2			
Curtrine-Ultra (EPA Reg. No. 8959-53)	12 gallons/surface acre *	0.30 acres	4.0 feet	0.60 gallons	2			

Municipality:	Union City	County:	Erie	Total Area:	0.55 acres
Water Body:	Pond # 7 Union City Fish Hatchery	Receiving Stream:	Bentley Run	Avg. Depth:	4.0 feet

TREATMENT INFORMATION							
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments		
Aquashade (EPA Reg. No. 33068-1)	32 oz. /acre foot.	0.55 acres	4.0 feet	1 st -0.48 gallons 2 - 7 th -0.24 gallons	7		
Reward (EPA Reg. No. 10182-404)	2.0 gallons/ surface acre	0.55 acres	4.0 feet	0.75 gallons	2		
Curtrine-Plus Granular (EPA Reg. No. 8959-12)	60 lbs/ acre	0.55 acres	4.0 feet	15.0 lbs	2		
Curtrine-Ultra (EPA Reg. No. 8959-53)	12 gallons/surface acre *	0.55 acres	4.0 feet	1.0 gallons	2		

Pond #8 Union City Fish Hatchery

Union City

Municipality:

Water Body:

(EPA Reg. No. 8959-10)

2.0 acres

4.0 feet

3

Total Area:

Avg. Depth:

	Т	REATMENT INFOR	MATION		
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Aquashade (EPA Reg. No. 33068-1)	32 oz. /acre foot.	2.0 acres	4.0 feet	1.0 gallons	7
Reward (EPA Reg. No. 10182-404)	2.0 gallons/ surface acre	2.0 acres	4.0 feet	4.0 gallons	2
Curtrine-Plus Granular (EPA Reg. No. 8959-12)	60 lbs/ acre	2.0 acres	4.0 feet	60.0 lbs	2
Curtrine-Ultra (EPA Reg. No. 8959-53)	12 gallons/surface acre *	2.0 acres	4.0 feet	4.75 gallons	2
Municipality: Tionesta		County:	Forest	Total Are	ea: 0.5 acres
Water Body: Pond # 1, 3	2, 3, 4, 5, 6, 7, and 8	Receiving Strear	n: Allegheny f	River Avg. Dep	pth: 4.0 feet
	т	REATMENT INFOR	MATION		
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Aquashade (EPA Reg. No. 33068-1)	32 oz. /acre foot.	0.5 acres	4.0 Feet	0.5 gallons	6
Diquat (EPA Reg. No. 100-1061)	2.0 gallons/ surface acre**	0.5 acres	4.0 Feet	1.0 gallons	2
Cutrine Plus (liquid)***	18 gallons/ surface	0.5 acres	4.0 Feet	1.4 gallons	3

County:

Erie

Receiving Stream: Bentley Run

Municipality:	Tionesta	County:	Forest	Total Area:	0.5 acres
Water Body:	Warm Water Unit and other Warming Ponds	Receiving Stream:	Allegheny River	Avg. Depth:	4.0 feet

0.5 acres

acre

4.0 Feet

1.4 gallons

TREATMENT INFORMATION								
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments			
Aquashade (EPA Reg. No. 33068-1)	32 oz. /acre foot.	0.5 acres	4.0 Feet	0.5 gallons	6			
Diquat (EPA Reg. No. 100-1061)	2.0 gallons/ surface acre**	0.5 acres	4.0 Feet	1.0 gallons	2			
Cutrine Plus (liquid)*** (EPA Reg. No. 8959-10)	18 gallons/ surface acre	0.5 acres	4.0 Feet	1.4 gallons	3			

	Pleasant Me	punt	County:	Wayne	Tota	Area: 0.61 acres
Water Body:	Polishing F	ond	Receiving Stream:	WB Lackav	vaxen River Avg.	Depth: 4.0 feet
		٦ ۲	REATMENT INFOR	MATION		
Chemi	cal	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Reward (EPA Reg. No.	10182-404)	2.0 gallons/ surface acre	0.61 acres	4.0 Feet	0.90 gallons	3
Aquashade	33068-1)	32 oz. /acre foot.	0.61 acres	4.0 Feet	0.61 gallons	6
	Pleasant Mo		County:	Wayne	Total	Area: 1.0 acres
Municipality:	Pleasant Mo		County: Receiving Stream:	,		Area: 1.0 acres Depth: 4.0 feet
Municipality:	Pleasant Mo Back East :	ount and Back West	2	WB Lackaw		
(EPA Reg. No. : Municipality: Water Body: Chemi	Pleasant Mo Back East a Pond	ount and Back West	Receiving Stream:	WB Lackaw		
Municipality: Water Body:	Pleasant Mo Back East a Pond	ount and Back West	Receiving Stream: REATMENT INFOR Treatment	WB Lackaw	vaxen River Avg. Amount Each	Depth: 4.0 feet No. Annual

Municipality:			Wayne		l otal Area	: 1.0 acres	
Water Body:			m: WB Lackav	WB Lackawaxen River Avg. [n: 4.0 feet	
		T	REATMENT INFO	RMATION			
Chem	ical	Maximum Dose	Treatment Area	Treatment Depth	Amount Treatn		No. Annual Treatments
Reward (EPA Reg. No.	10182-404)	2.0 gallons/ surface acre	1.0 acres	4.0 Feet	1.47 ga	llons	3
Aquashade (EPA Reg. No.	33068-1)	32 oz. /acre foot.	1.0 acres	4.0 Feet	1.0 gal	llons	6

Municipality: Water Body:	Pleasant Mo Pond # 1	punt	County: Receiving Stream:	Wayne WB Lackaw	vaxen River	Total Area: Avg. Depth:	0.37 acres 4.24 feet
		T	REATMENT INFOR	MATION			
Chemic	al	Maximum Dose	Treatment Area	Treatment Depth	Amount Treatm		No. Annual Treatments
Reward (EPA Reg. No. 1	0182-404)	2.0 gallons/ surface acre	0.37 acres	4.24 Feet	0.57 ga	llons	3
Aquashade (EPA Reg. No. 3	3068-1)	32 oz. /acre foot.	0.37 acres	4.24 Feet	0.39 ga	llons	6

Municipality: Water Body:	Pleasant Mo Pond # 2	punt	County: Receiving Stream	Wayne WB Lackaw	axen River	Total Area: Avg. Depth:	0.32 acres 5.24 feet
		1	REATMENT INFOR	MATION			
Chem	ical	Maximum Dose	Treatment Area	Treatment Depth	Amount Treatm		No. Annual Treatments
Reward (EPA Reg. No.	10182-404)	2.0 gallons/ surface acre	0.32 acres	5.24 Feet	0.47 ga	llons	3
Aquashade (EPA Reg. No.	33068-1)	32 oz. /acre foot.	0.32 acres	5.24 Feet	0.42 ga	llons	6

Municipality:	Pleasant Mount	County:	Wayne	Total Area:	0.36 acres
Water Body:	Pond # 3	Receiving Stream:	WB Lackawaxen River	Avg. Depth:	4.25 feet

TREATMENT INFORMATION								
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments			
Reward (EPA Reg. No. 10182-404)	2.0 gallons/ surface acre	0.36 acres	4.25 Feet	0.53 gallons	3			
Aquashade (EPA Reg. No. 33068-1)	32 oz. /acre foot.	0.36 acres	4.25 Feet	0.38 gallons	6			

Municipality:	Pleasant Mount	County:	Wayne	Total Area:	0.38 acres
Water Body:	Pond # 4	Receiving Stream:	WB Lackawaxen River	Avg. Depth:	4.79 feet

TREATMENT INFORMATION							
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments		
Reward (EPA Reg. No. 10182-404)	2.0 gallons/ surface acre	0.38 acres	4.79 Feet	0.56 gallons	3		
Aquashade (EPA Reg. No. 33068-1)	32 oz. /acre foot.	0.38 acres	4.79 Feet	0.46 gallons	6		

Municipality: Pleasant Mo		ount	County:	Wayne			0.54 acres
Water Body:	Pond # 5		Receiving Stream:	WB Lackawaxen River		Avg. Depth:	5.31 feet
		1	REATMENT INFOR	NOTION			
Chemi	ical	Maximum Dose	Treatment Area	Treatment Depth	Amount Treatn		No. Annual Treatments
Reward (EPA Reg. No.	10182-404)	2.0 gallons/ surface acre	0.54 acres	5.31 Feet	0.79 ga	llons	3
Aquashade (EPA Reg. No.	33068-1)	32 oz. /acre foot.	0.54 acres	5.31 Feet	0.72 ga	illons	6

Municipality:	Pleasant Mount	County:	Wayne	Total Area:	0.91 acres
Water Body:	Pond # 6	Receiving Stream:	WB Lackawaxen River	Avg. Depth:	4.11 feet

TREATMENT INFORMATION							
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments		
Reward (EPA Reg. No. 10182-404)	2.0 gallons/ surface acre	0.91 acres	4.11 Feet	1.34 gallons	3		
Aquashade (EPA Reg. No. 33068-1)	32 oz. /acre foot.	0.91 acres	4.11 Feet	0.94 gallons	6		

Municipality:	Pleasant Mount	County:	Wayne	Total Area:	0.93 acres
Water Body:	Pond # 7	Receiving Stream:	WB Lackawaxen River	Avg. Depth:	4.5 feet

TREATMENT INFORMATION						
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments	
Reward (EPA Reg. No. 10182-404)	2.0 gallons/ surface acre	0.93 acres	4.5 Feet	1.37 gallons	3	
Aquashade- (EPA Reg. No. 33068-1)	32 oz. /acre foot.	0.93 acres	4.5 Feet	1.05 gallons	6	

Municipality:	Pleasant Mount	County:	Wayne	Total Area:	0.53 acres
Water Body:	Pond # 8	Receiving Stream:	WB Lackawaxen River	Avg. Depth:	3.56 feet

TREATMENT INFORMATION							
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments		
Reward (EPA Reg. No. 10182-404)	2.0 gallons/ surface acre	0.53 acres	3.56 Feet	0.78 gallons	3		
Aquashade (EPA Reg. No. 33068-1)	32 oz. /acre foot.	0.53 acres	3.56 Feet	0.47 gallons	6		

Municipality: Water Body:	Pleasant Mo Pond # 9	ount	County: Receiving Stream	Wayne WB Lackav	vaxen River	Total Area: Avg. Depth:	0.46 acres 4.44 feet
		1	REATMENT INFO	RMATION			
Chem	ical	Maximum Dose	Treatment Area	Treatment Depth	Amount Treatm		No. Annual Treatments
Reward (EPA Reg. No.	10182-404)	2.0 gallons/ surface acre	0.46 acres	4.44 Feet	0.68 ga	llons	3
Aquashade (EPA Reg. No.	33068-1)	32 oz. /acre foot.	0.46 acres	4.44 Feet	0.51 ga	llons	6

Municipality:	Pleasant Mount	County:	Wayne	Total Area:	0.53 acres
Water Body:	Pond # 10	Receiving Stream:	WB Lackawaxen River	Avg. Depth:	4.74 feet

TREATMENT INFORMATION							
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments		
Reward (EPA Reg. No. 10182-404)	2.0 gallons/ surface acre	0.53 acres	4.74 Feet	0.78 gallons	3		
Aquashade (EPA Reg. No. 33068-1)	32 oz. /acre foot.	0.53 acres	4.74 Feet	0.62 gallons	6		

Municipality:	Pleasant Mount	County:	Wayne	Total Area:	3.28 acres
Water Body:	Pond # 12	Receiving Stream:	WB Lackawaxen River	Avg. Depth:	9.07 feet

TREATMENT INFORMATION						
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments	
Reward (EPA Reg. No. 10182-404)	2.0 gallons/ surface acre	3.28 acres	9.07 Feet	4.8 gallons	3	
Aquashade (EPA Reg. No. 33068-1)	32 oz. /acre foot.	3.28 acres	9.07 Feet	7.4 gallons	6	

Municipality:	Linesville H Township	atchery, Pine	County:	Crawford	Total Area		0.25 acres	
Water Body:	Pump Hou	se Pond # 1	Receiving Stream	: Pymatuning	Sanctuary	Avg. Depth:	3.0 feet	
			TREATMENT INFOR	MATION				
Chem	ical	Maximum Dose	Treatment Area	Treatment Depth	Amount Treatm		No. Annual Treatments	
Reward (EPA Reg. No.	10182-404)	2.0 gallons/ surface acre	0.25 acres	3.0 Feet	0.25 gal	lons	3	
Cutrine Plus (lic (EPA Reg. No.		18 gallons/ surface acre	0.25 acres	3.0 Feet	0.525 ga	llons	3	
Aquashade (EPA Reg. No.	33068-1)	32 oz. /acre foot.	0.25 acres	3.0 Feet	0.75 (qt	10	

		т	REATMENT INFORM	ATION		
v	Vater Body:	Pump House Pond # 2, 3, and 4	Receiving Stream:	Pymatuning Sanctuary	Avg. Depth:	3.0 feet
N	lunicipality:	Linesville Hatchery, Pine Township	County:	Crawford	Total Area:	0.5 acres

TREATMENT INFORMATION							
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments		
Reward (EPA Reg. No. 10182-404)	2.0 gallons/ surface acre	0.5 acres	3.0 Feet	0.5 gallons	3		
Cutrine Plus (liquid)* (EPA Reg. No. 8959-10)	18 gallons/ surface acre	0.5 acres	3.0 Feet	1.05 gallons	3		
Aquashade (EPA Reg. No. 33068-1)	32 oz. /acre foot.	0.5 acres	3.0 Feet	1.5 qts.	10		

		TREATMENT INFORM	ATION		
Water Body:	Building Pond South	Receiving Stream:	Pymatuning Sanctuary	Avg. Depth:	7.0 feet
Municipality:	Linesville Hatchery, Pine Township	County:	Crawford	Total Area:	5.0 acres

Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments	
Reward (EPA Reg. No. 10182-404)	2.0 gallons/ surface acre	5.0 acres	7.0 Feet	5.0 gallons	3	
Cutrine Plus (liquid)* (EPA Reg. No. 8959-10)	18 gallons/ surface acre	5.0 acres	7.0 Feet	24.5 gallons	3	
Aquashade (EPA Reg. No. 33068-1)	32 oz. /acre foot.	5.0 acres	7.0 Feet	8.75 gallons	10	

(EPA Reg. No. 8959-10)

(EPA Reg. No. 33068-1)

Aquashade

32 oz. /acre foot.

0.875 gallons

10

Municipality:	Linesville H Township	atchery, Pine	County:	Crawford	Total Ar	ea: 3.3 acres
Water Body:	Building Po	ond North	Receiving Stream	: Pymatuning	g Sanctuary Avg. De	pth: 7.0 feet
			TREATMENT INFOR	MATION		
Chem	ical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Reward (EPA Reg. No.	10182-404)	2.0 gallons/ surface acre	3.3 acres	7.0 Feet	3.3 gallons	3
Cutrine Plus (lic (EPA Reg. No.		18 gallons/ surface acre	3.3 acres	7.0 Feet	16.2 gallons	3
Aquashade (EPA Reg. No.	33068-1)	32 oz. /acre foot.	3.3 acres	7.0 Feet	5.8 gallons	10
Municipality:	Linesville H Township	atchery, Pine	County:	Crawford	Total Ar	ea: 0.25 acres
Water Body:	North Pond	1#1	Receiving Stream	: Pymatuning	g Sanctuary Avg. De	pth: 4.0 feet
			TREATMENT INFOR	MATION		
Chem	ical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Reward (EPA Reg. No.	10182-404)	2.0 gallons/ surface acre	0.25 acres	4.0 Feet	0.25 gallons	3
Cutrine Plus (lic (EPA Reg. No.	, ,	18 gallons/ surface acre	0.25 acres	4.0 Feet	0.7 gallons	3
Aquashade (EPA Reg. No.	33068-1)	32 oz. /acre foot.	0.25 acres	4.0 Feet	0.25 gallons	10
Municipality: Water Body:	Township	atchery, Pine 1 # 2, 3, and 4	County: Receiving Stream	Crawford : Pymatuning	Total Ar g Sanctuary Avg. De	
			TREATMENT INFOR	MATION		
Chem	ical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments
Reward (EPA Reg. No.	10182-404)	2.0 gallons/ surface acre	0.5 acres	7.0 Feet	0.5 gallons	3
Cutrine Plus (lic (EPA Reg. No.		18 gallons/ surface acre	0.5 acres	7.0 Feet	2.45 gallons	3

0.5 acres

7.0 Feet

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Municipality: Linesville H Township		atchery, Pine	County:	Crawford		Total Area:	0.5 acres
Water Body: North Pond # 5			Receiving Stream:	Pymatuning	Pymatuning Sanctuary		4.0 feet
			TREATMENT INFORM	ATION			
Chem	ical	Maximum Dose	Treatment Area	Treatment Depth	Amount Treatm		No. Annual Treatments
Reward (EPA Reg. No.	10182-404)	2.0 gallons/ surface acre	0.5 acres	4.0 Feet	3.3 gal	lons	3
Cutrine Plus (lic (EPA Reg. No.		18 gallons/ surface acre	0.5 acres	4.0 Feet	1.4 gal	lons	3
Aquashade (EPA Reg. No.	33068-1)	32 oz. /acre foot.	0.5 acres	4.0 Feet	0.5 gal	lons	10

	TREATMENT INFORMATION							
Water Body:	South Pond # 1, 2, 3, 4	Receiving Stream:	Pymatuning Sanctuary	Avg. Depth:	5.0 feet			
Municipality:	Linesville Hatchery, Pine To	ownship County:	Crawford	Total Area:	1.0 acres			

TREATMENT INFORMATION							
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments		
Reward (EPA Reg. No. 10182-404)	2.0 gallons/ surface acre	1.0 acres	5.0 Feet	1.0 gallons	3		
Cutrine Plus (liquid)* (EPA Reg. No. 8959-10)	18 gallons/ surface acre	1.0 acres	5.0 Feet	3.5 gallons	3		
Aquashade (EPA Reg. No. 33068-1)	32 oz. /acre foot.	1.0 acres	5.0 Feet	1.25 gallons	10		

Municipality:	Linesville Hatchery, Pine To	wnship County:	Crawford	Total Area:	0.5 acres
Water Body:	South Pond # 5, 6, 7, 8	Receiving Stream:	Pymatuning Sanctuary	Avg. Depth:	4.0 feet

TREATMENT INFORMATION							
Chemical	Maximum Dose	Treatment Area	Treatment Depth	Amount Each Treatment	No. Annual Treatments		
Reward (EPA Reg. No. 10182- 404)	2.0 gallons/ surface acre	0.5 acres	4.0 Feet	0.5 gallons	3		
Cutrine Plus (liquid)* (EPA Reg. No. 8959- 10)	18 gallons/ surface acre	0.5 acres	4.0 Feet	1.4 gallons	3		
Aquashade (EPA Reg. No. 33068- 1)	32 oz. /acre foot.	0.5 acres	4.0 Feet	0.5 gallons	10		