MASSACHUSETTS MOSQUITO CONTROL

ANNUAL OPERATIONS REPORT

Year Report Covers: 2020 Date of Report: 01/25/2021

Project/District Name: Norfolk County Mosquito Control District

Address: 144 Production Road, Suite C

City/Town: Walpole Zip: 02081

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Report prepared by: David Lawson

NPDES permit no. MAG87B255

If you have a mission statement, please include it here: "The Norfolk County Mosquito Control District Commission represents the interests of the member communities and their residents by providing oversight of District activities. The Commissioners each live or work within a community serviced by the District, were nominated by municipal authorities, and were evaluated and appointed to their posts by the State Reclamation and Mosquito Control Board. The Commission strives to ensure that the member communities receive services consistent with applicable laws and justified by tenets of public health, vector control, environmental safety and fiscal responsibility. The Commission invites input and questions from community officials and residents. The District's website announces the Commission's monthly meetings and planned agendas, and hosts minutes from past meetings."

ORGANIZATION SETUP:

Commissioner names:

Robin Chapell Norman Jacques

Maureen MacEachern Richard Pollack

<u>Linda Shea</u>

Superintendent/Director name: David Lawson

Superintendent/Director contact phone number: (781) 762-3681

Asst. Superintendent/Director name: Caroline Haviland - Field Operations Manager

District/Project website: http://www.norfolkcountymosquito.org

Twitter handle: @

Facebook page: http://www.facebook.com/Norfolk-County-Mosquito-Control-District-

152138671525303/?fref=ts

Staffing levels for the year of this report:

Full time: 12 Part time: 0 Seasonal: 1

Other: (please describe)

Of the above, how many are:
(Please check off all that apply, and list employee name(s) next to each category)
Administrative Liz Donnell, David Lawson, Caroline Haviland Biologist Kaitlyn O'Donnell, Caroline Haviland Educator Kaitlyn O'Donnell, David Lawson Entomologist Kaitlyn O'Donnell Facilities David Lawson, Caroline Haviland Information technology Nate Boonisar Laboratory Kaitlyn O'Donnell Operations Caroline Haviland, David Lawson, Brian Moore, William Haviland, Robert O'Halloran, John Tuana, Anthony Caso, Eric Tarala, Greg Gangitano Public relations Kaitlyn O'Donnell, Caroline Haviland, David Lawson, Nate Boonisar Wetland scientist Caroline Haviland Other (please describe) GIS - Nate Boonisar
For the year of this report, the following were maintained (enter number in the column to the left):
Modified wetland equipment (list type) Linkbelt 1600 quantum series excavator; modified (extended tracks) Kobelco SK60 excavator; non wetland - John deere 880 bulldozer; Bombadier Muskeg Larval control equipment (list type) Mid-Atlantic Equipment high pressure larvicide unit; ULV sprayers (list type) 7 Clarke Dura Promists, 1 Cougar Yehicles
Other (please be specific): A-1 Mist sprayer for truck mounted barrier applications.
Comments:
How many cities and towns are in your service area?* 25 Alphabetical list: Avon, Bellingham, Braintree, Canton, Dedham, Dover, Foxborough, Franklin, Holbrook, Medfield, Medway, Millis, Milton, Needham, Norfolk, Norwood, Plainville, Quincy, Randolph, Sharon, Stoughton, Walpole, Westwood, Weymouth, Wrentham
Were there any changes to your service area this year? No Cities/towns added: Cities/towns removed:
*Please attach a map of your service area (or a website link to that map).
INTEGRATED PEST MANAGEMENT (IPM):
Check off all services that your district/project currently provides to member cities and town
as part of an IPM program (details will be provided in the sections below):
Adult mosquito control Adult mosquito surveillance Ditch maintenance
<u> </u>

\boxtimes	Education, Outreach & Public education
\boxtimes	Larval mosquito control
\boxtimes	Larval mosquito surveillance
	Open Marsh Water Management
\boxtimes	Research
\boxtimes	Source reduction (tire removals)
	Other (please list):
Coi	mments:

LARVAL MOSQUITO CONTROL:

If you have a larval mosquito control program, please fill out the section below, else skip ahead to the next section.

Describe the purpose of this program: Targeted preemptive control measures are the most cost effective, efficient and environmentally friendly way to reduce mosquito populations. NCMCD applies biorational insecticides to shallow water to control mosquitoes in their most vulnerable aquatic stages in an attempt to prevent the emergence of adult mosquitoes. A GIS database of mosquito larval development sites are checked and treated as necessary by means of hand, truck and/or aerial application. Spring and summer flooding following snow melt and/or heavy rainfall creates a potential each year for significant mosquito larval development in various wetlands across the NCMCD. The predominate species which develop in the spring are Ochlerotatus abserratus, Ochlerotatus excrucians and Ochlerotatus canadensis. In the summer the predominate species following river flooding are Ochlerotatus trivittatus, Aedes cinereus, Aedes vexans, Psorophora ferox and Ochlerotatus canadensis. All of these mosquito species are strong human biters and can create significant nuisance level populations during the late spring and summer months. During certain years, some of the summer mosquito species, such as Aedes vexans, may be involved in the transmission of Eastern Equine Encephalitis (EEE) from birds to humans. In an effort to proactively control these aggressive human biting species, and in an environmentally responsible manner, the Norfolk County Mosquito Control District conducts aerial larval control operations using products with the active ingredient Bacillus thuringiensis israelensis (Bti). In small wetlands and in larval development sites proximate to homes, where aircraft applications are not suitable, hand applications using the same products at the same rates are utilized. Truck mounted larvicide application equipment is used for treating wetlands that are at the edge of roadways and parking lots.

NCMCD makes applications of an insecticide to catch basins, storm water structures, etc. to control primarily Culex mosquitoes in their aquatic stages. Culex species have been identified as likely vectors of WNv.

NCMCD began research and surveillance in consideration of conducting fall aerial applications to control Coquilletidia perturbans in the unique wetland habitats that they overwinter in. In September of 2018, the District treated 124 acres of habitat in Westwood and Franklin with VectoLex FG (Bacillus sphaericus). During the fall of 2019, the District treated 136 acres. In 2020, the District treated 130 acres and has possible plans to add an additional wetland in Braintree to the treatment plan for the fall of 2021.

What months is this program active? April - September

Describe the types of areas where you use this program: Ground larvicide treatments are typically made to smaller natural and manmade wetlands and depressions. The typical wetlands treated during the spring aerial larvicide are described as large (greater than five acres) Wooded Swamp Deciduous/Coniferous/Mixed, Shrub Swamp, Shallow Marsh/Meadow/Fen wetlands. Summer aerial applications are more typically conducted on river floodplain areas especially within wetlands adjacent to the Neponset and Charles Rivers. Maps of aerially targeted wetlands are available on the District's website. The new focus on Cq. perturbans is treating deep marsh habitat with specific vegetation that is utilized by this mosquito larvae to complete its life cycle.

Rain basin treatments typically occur in high density population areas around centers of towns and heavy residential/commercial areas.

Do	you use:
\boxtimes	Ground application (hand, portable and/or backpack, etc.)
\boxtimes	Aerial applications
\boxtimes	Other (please list): truck hydraulic hose for liquid Bti.
Cor	nments:

List all products that you use for larval mosquito control in the table below (leave blank if not applicable):

Product Name	EPA#	Application	Application	Targeted life	Habitat Type	Total finished
		Rate(s)	Method	stage		product applied
VectoBac GR	73049-486	2.5 - 10 lbs/acre	aerial	Larvae	☐ Catch basins ☐ Containers ☑ Wetland ☐ Other (please list):	21,760lbs
VectoBac G	73049-10	2.5 - 10/acre	hand/back pack blower	Larvae	☐ Catch basins ☐ Containers ☑ Wetland ☐ Other (please list):	3161.4 lbs
VectoBac 12AS	73049-38	0.25 - 2 pints/acre	Mist Sprayer	Larvae	Catch basins Containers Wetland Other (please list):	60 gal
VectoLex FG	73049-20	5 - 20 lbs /acre	aerial	Larvae	Catch basins Containers Wetland Other (please list):	1,760lbs
VectoLex WSP	73049-20	1 pouch /50sq ft.	hand	Larvae	Catch basins Containers Wetland Other (please list):	11,930 puches
Fourstar 90 day briquet	83362-3	1 briquet/100 sq. ft.	hand	Larvae		8,829 briquets
Fourstar 45 day briquet	83362-3	1 briquet/100 sq. ft.	hand	Larvae	Catch basins Containers Wetland Other (please list):	9,367 briquets

List all products that you use for larval mosquito control in the table below (leave blank if not applicable):

Product Name	EPA#	Application	Application	Targeted life	Habitat Type	Total finished
		Rate(s)	Method	stage		product applied
Altosid XR briquet	2724-421	1 briquet/100 sq. ft.	hand	Larvae	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list): Pools	12 briquets
Altosid 30 day briquet	2724-375	1 briquet/100 sq. ft.	hand	Larvae	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list): Pool	5 briquets
Altosid WSP	2724-448	1 briquet/135 sq. ft.	hand	Larvae	□ Catch basins □ Containers □ Wetland □ Other (please list):	3,907 pouches
CocoBear oil	8329-93	10 oz./1000 sq. ft.	hand	Larvae/pupae	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list):	371 oz
MetaLarv SPT	73049-475	2.5-10 lbs /acre	aerial	Larvae	☐ Catch basins ☐ Containers ☐ Wetland ☐ Other (please list):	160 lbs
				Larvae	□ Catch basins □ Containers □ Wetland □ Other (please list):	
				Choose one	Catch basins Containers Wetland Other (please list):	

What is your trigger for larviciding operations? (check all that apply) Best professional judgment Historical records Larval dip counts – please list trigger for application: any larvae Other (please describe): Comments:
Please attach a map of your service area (or a website link to that map). http://norfolkcountymosquito.org/service-request/
ADULT MOSQUITO CONTROL:
If you have a larval mosquito control program, please fill out the section below, else skip ahead to the next section
Describe the purpose of this program: When larviciding is not a viable option (example: Coquillettidia perturbans or Culiseta melanura) and/or when adult mosquito populations reach levels which are either bothersome to residents and/or a public health concern is realized, targeted adulticiding applications are used. NCMCD makes decisions to use adulticides based on evaluations of the risks of EEE or WNv transmission to humans in collaboration with MDPH or based on evaluations of the nuisance level that residents report to NCMCD. NCMCD also bases decisions to adulticide on mosquito surveillance (trap counts), field crew observations and after careful analysis of predicted local weather conditions.
What is the time frame for this program? May through October
Describe the types of areas where you use this program: ULV applications can be conducted anywhere the Districts trucks can access, though mostly on paved streets in residential neighborhoods. Barrier applications are conducted on municipal properties that the public utilizes and where the public may be at risk, such as schools, public parks, and athletic fields.
Do you use: Aerial applications Portable applications Truck applications Other (please list):

For each product used, please list the name, EPA #, and application rate(s):

Comments: _____

Product Name	EPA#	Application	Application	Total finished
		Rate(s)	Method	product applied
Zenivex E4	2724-807	1.0 oz/acre	Truck mounted ULV	1,356.47 gal
Mavrik	2724-478	0.1oz/gal/10	Truck mounted	96 gal
Perimeter		00 sq. ft.	sprayer/ or	
			backpack sprayer	

Please describe the maximum amounts or frequency used in a particular time frame such as season and areas

ULV is potentially conducted in each town once per week. Possibly more if a disease threat warrants further applications. Barrier applications are conducted based on requests from municipal officials and our own assessments and surveillance. Barrier applications are effective for a couple weeks, and so not repeated for at least 2 weeks.

What is your trigger for adulticiding operations? (check all that apply)
Arbovirus data
Best professional judgment
Complaint calls (Describe trigger for application: GEIR - more than one call per square mile)
☐ Landing rates (Describe trigger for application GEIR - more than one bite per minute)
☐ Light trap data (Describe trigger for application GEIR - more than 5 human biting
mosquitoes per trap per night)
Comments:

Please attach a map of your service area (or a website link to that map). www.norfolkcountymosquito.org/service-request/

SOURCE REDUCTION (Tire Removals)

If you practice source reduction methods, such as tire removal, please fill out the section below, else skip ahead to the next section.

Please describe your program: NCMCD advises residents/Boards of Health in person or via phone or internet to empty any containers that may hold water on their property. When performing site visits, personnel will overturn containers that hold water with mosquito larvae present. In 2012 NCMCD initiated a tire removal program which continued into 2020. The District picks up tires from residents who request this service. Tires must be off the rim and the District takes no more than 10 tires per resident per year. The District also removes dumped tires from the environment. Locations are reported as employees find tires during routine field work. 946 tires were removed and recylced in 2020.

What time frame during the year is this method employed? October - March

Comments: NCMCD shuts down tire removal as a service during the 'mosquito' season, April through September due to the fact that the tire removal work District's from more important control work.

WATER MANAGEMENT/DITCH MAINTENANCE

If you have a water management or ditch maintenance program, please fill out the section below, else skip ahead to the next section.

Please check all that apply: Inland/freshwater Saltmarsh	
	ICD reduces the potential for larval mosquito
	ds under this category. Our Freshwater Water
conducted to improve water quality and inc	nd Maintenance, as well as culvert area clearing crease water flow. Crews utilize excavators when
ditches require heavy work. Crews also emplo	OMWM) Program (which is currently only in
	improve saltmarsh habitat along with mosquito
habitat reduction.	
Tire casing collection is a service in which	we remove and recycle off rim tires in order to
eliminate this source of potential larval mosq	uito development.
For inland/freshwater water management, o	
Maintenance Type	Estimate of cumulative length of culverts, ditches,
Culvert also sing	swales, etc. maintained (ft)
Culvert cleaning	617 culverts cleared
Hand cleaning	125,920 feet cleaned
Mechanized cleaning	10,985 feet cleaned
Stream flow improvement	500 5 15 1404
Other (please list): Brushing	600 feet for WM access
Comments:	
For collamonals distals assistances as already off	II Abada ayaday
For saltmarsh ditch maintenance, check off a	
Maintenance Type	Estimate of cumulative length of ditches maintained (ft)
Hand cleaning	? feet cleaned
Mechanized cleaning	? feet cleaned
Other (please list):	
Comments:	
	
What time frame during the year is this meth	od employed? all year
Comments:	

Please attach a map of ditch maintenance areas (or a website link to that map).

OPEN MARSH WATER MANAGEMENT

If you have an Open Marsh Water Management program, please fill out the section below, else skip ahead to the next section.

Describe the purpose of this program: The NCMCD has conducted OMWM in the past, but has stopped performing OMWM due to regulatory requirements that make it overly burdensome

to the District. The Districts OMWM permit from the ACOE expired in January 2016, and was not renewed. Maintenance on past projects is required by the ACOE permit and the District will maintain all past completed OMWM projects.

What months is this program active? Usually, October - March

Please give an estimate of total square feet or acreage:

Comments: Maintenance of OMWM involves work to keep the system in its originally designed and created condition, and does allow some minor tweaking outside of the original design.

Please attach a map of OMWM areas (or a website link to that map). In the municipalities of Braintree, Quincy, Milton and Weymouth.

MONITORING (Measures of Efficacy)

Describe monitoring efforts for each of the following:

Aerial Larvicide – wetlands: In the weeks prior to a spring aerial application, wetlands are dipped in all aerial regions and this data is compiled in the GIS map data. Post application dipping is conducted. During the aerial application in 2020, aerial Bti application efficacy was compared in treated and untreated experimental wetlands before and after application.

Ground ULV Adulticide: NCMCD did not monitor ULV efficacy in 2020

Larvicide – catch basins: Effectiveness of three different catch basin products was

monitored throughout the summer at one site in Dedham.

Larvicide-hand/small area The Director randomly inspects ground larvicide sites in the spring for employee reporting follow up and concurrently inspects sites for efficacy.

Open Marsh Water Management: NA

Source Reduction: The Field Operations Manager conducts follow-up site visits to water management project sites to make sure the work is fucntioning as designed.

Other (please list):

Provide or list standard steps, criterion, or protocols regarding the documentation of efficacy (pre and post data), and resistance testing (if any):

Check the boxes below, indicating if your program has performed any of the following:

Research Project	Details
Bottle assays	
Efficacy testing	
Other:	

Other:				
other.				
ADULT MOSQUITO SURVEILLANCE				
If you have an adult mosquito surveillance	program, please fill out the section	n below, else skip ahead to the next		
section.	or ogram, prease jm out the section	r selow, else skip unedu to the next		
Describe the purpose of this progra		· · · · ·		
determine the presence of adult mo	•			
also used to monitor for EEE and Wo	•	• •		
to the Massachusetts Arbovirus Sur) and tested for the presence of		
West Nile Virus and EEE in local mos		h. Culau ainiana and nashuana		
Gravid Traps: These traps are used by				
mosquitoes for submission to the M West Nile virus analysis. The gravid				
surveillance because they have prev	•	•		
usually the first to pick up West Nile	•			
Resting boxes are used to supplement	•			
What months is this program active	? June - October			
Check off all trap types used this pa	st season by your program:			
Тгар Туре	Canopy?	Number of traps		
	(check box for yes)	(leave blank if zero)		
ABC light trap				
ABC light trap w/CO ₂				
CDC light trap				
CDC light trap w/CO ₂		34		
Gravid trap		28		
Landing rate test				
NJ light trap				
NJ light trap w/CO ₂		26		
Ovitrap		36		
Resting box		50		
Other (please describe): Other (please describe):				
Other (please describe):				
Other (please describe).				
Do you maintain long-term trap site	s in any of your areas? Yes			
If yes, how many:	s in any or your areas. Tes			
31				
Please check off the species of conc	ern in vour service area:			
☐ Ae. albopictus ☐ An. punctipennis				
Ae. albopictus	· —	tipennis		
☐ Ae. albopictus☐ Ae. cinereus☐ Ae. vexans	An. punc	drimaculatus		

X Cx. pipiens	🔀 Oc. j. jap	onicus			
Cx. restuans	Oc. sollid				
Cx. restauris Cx. salinarius		iorhynchus			
Cs. melanura	Oc. trise	•			
Cs. morsitans	Oc. trivit				
Oc. abserratus	Ps. ferox				
Oc. canadensis	Ur. sapp				
Oc. cantator					
Others (please list):					
,					
Number of adult mosquitoes collected	this season (whether sub	mitted to DPH	or not): 163,007		
Number of adult mosquito pools collect					
Number of ovitrap collections this seas	son, if any: 48				
Any other trap collections of note (plea	ase describe):				
Do you participate in the MDPH Arbovi	_				
Total number of adult mosquito pools	•	st season: 540			
How many pools do you submit weekly on average? 33					
Number of traps in your service area p	•				
Were these long-term trap sites or supplemental trapping sites? long-term					
M/high arboviruses were found in your	area during the provious	macquita cooc	an? Entartha		
Which arboviruses were found in your area during the previous mosquito season? Enter the number of pools/cases below:					
Arbovirus Positive Mosquito Pools Equine Cases Human Cases					
Eastern Equine Encephalitis (EEE)	0	0	0		
West Nile Virus (WNV)	19	0	1		
Other (please list):					
Comments:					
For each arbovirus listed below, please list the risk levels in your project area at both the start					
and and of the coasen (if more than an	o places list all\.				

and end of the season (if more than one, please list all):

Arbovirus	Start of Season	End of Season
EEE	remote, low	remote, low, moderate
WNV	low	low, moderate

Cc	m	m	en	ts:	

EDUCATION, OUTREACH & PUBLIC RELATIONS

If you have an education/outreach program, please fill out the section below, else skip ahead to the next section.

Describe the purpose of this program: NCMCD maintains a very informative website which is updated frequently during the season. It contains fact sheets concerning West Nile virus and

EEE virus. It also contains notices and news regarding treatment beginning and end dates and ways for residents to protect themselves from mosquito bites around the home. The website also contains links to the Massachusetts Department of Public Health and the Centers for Disease Control and Prevention (CDC) where residents can find up to date information on arbovirus activity in the county, the state as well as country-wide. Our Entomologist participates in educational activities such as classroom activities in the schools and field education activities with summer camp programs as appropriate, as well as health fairs and farmers markets. Employees leave door hangers at residents homes after completeing larvicide requests. The hangers highlight actions a resident can do to reduce or eliminate mosquito breeding on their property. Employees conducting ULV applications, have brochures on the ULV program to hand to residents with questions regarding the program. Employees connect to various outside organizations in an effort to better inform the public about what the District does.

What time frame during the year is this method employed? All year

check off an education/outreach methods that were performed by your program this year.
Development/distribution of brochures, handouts, etc.
Door-to-door canvassing (door hangers, speaking to property owners, etc.)
Facebook page, Twitter, or other social media
Mailings (Describe target audience(s): notification of autumn aerial application for adjacer
properties.)
Media outreach (interviews for print or online media sources, press releases, etc.)
Presentations at meetings
School-based programs, science fairs, etc.
Tabling at events (local events, annual meetings, etc.)
Website
Other (please describe):
Estimate the audience reached this year using the education/outreach methods above: 500 Comments:
List your program's top 3 education/outreach activities for this year:
1. news interviews
2. health fairs
3. public access program interview
5. public decess program interview
Were you involved in any collaborations with the following partners this year? Provide details
below, including a list of technical reports, white/grey papers, journal publications, trade
magazine articles, etc:
Academia
Another mosquito control district/project Bristol and Plymouth County MCP - Presentation
of Cs. melanura research.
Another state agency (DCR, DPH, etc.)
Environmental groups

Industry		
List any training/education your staff received this year:		
Please list the certifications and degrees held by your staff: Director - Master of Science (Geology), Field Operations Manager - Bachelor of Science (Biology), GIS Coordinator - Master of Science (Geological Oceanography), Entomologist - Master of Science (Entomology)		
Comments:		
INFORMATION TECHNOLOGY (IT)		
Does your program use (check all that apply): Aerial Photography Databases Dataloggers (monitoring for temperature, etc.) GIS mapping (Describe: GPS equipment Smartphones Tablets/Toughbooks Other (please describe):		
Describe any changes/enhancements in IT from the previous year:		
Describe any difficulties your program had with IT software/equipment this year:		
Comments:		

REVENUES & EXPENDITURES

Please enter your approved budgets for the current, previous, and future fiscal years.

	Date of Fiscal	Approved Budget	Notes
	Year		
Previous	FY 2020	\$1,933,941	
Current	FY 2021	\$2,001,629	
Future	FY 2022	\$2,061,678	

List each member municipality, along with the corresponding (cherry sheet) funding assessment dollar amount, for the current fiscal year (or provide a web link to this information):

NCMCD Municipality FY 2020 Total Town Assessment (District plus SRMCB Assessements)

AVON \$20,392 BELLINGHAM \$68,640 BRAINTREE \$103,538 CANTON \$110,376 DEDHAM \$77,400 DOVER \$65,874 FOXBOROUGH \$83,816 FRANKLIN \$127,273 \$31,708 HOLBROOK \$67,022 MEDFIELD **MEDWAY** \$50,857 MILLIS \$38,830 MILTON \$93,439 NEEDHAM \$114,050 NORFOLK \$51,860 \$78,247 NORWOOD PLAINVILLE \$40,842 \$163,369 QUINCY RANDOLPH \$66,818 \$94,530 SHARON **STOUGHTON** \$88,543 WALPOLE \$107,007 WESTWOOD \$76,680 WEYMOUTH \$123,337 WRENTHAM \$70,087 \$2,014,536

Comments: _____

SERVICE REQUESTS

How many service requests did you receive this season? 9,107 How many were for larviciding? 247 How many were for adulticiding? 8,647

Was this an increase or decrease over last season? Decrease

Comments: 213 Tire Requests in addition to above

EXCLUSIONS

How many exclusion requests did you receive this season? 295

Was this an increase or decrease over last season? Increase

Do you have large areas of pesticide exclusion, such as estimated or priority habitats? Yes

If yes, please explain, and attach maps or a web link if possible. Audubon Society property in Canton and Sharon, and Trustees of Reservation property in Medfield, Millis, and Dover.

Did your program perform any of the following special projects? Check all that apply. Inspectional services (inspections at sewage treatment facilities, review of subdivision plans, etc.) Describe: Work with DPW departments or other local or state officials to address stormwater systems, clogged culverts, or other areas identified as man-made mosquito problem areas Describe: Work with groups as described above on long term solutions? Describe: Conduct or participate in any cooperative research or restoration projects? Describe: Work with other Districts on Cs. melanura control research. Participate in any state/regional/national workgroups or panels, or attend any meeting pertaining to the above?

CHILDREN AND FAMILIES PROTECTION ACT (CFPA)

predators, release of predatory fish or invertebrates, etc.?

Is your program impacted by the CFPA? Yes

Describe:

Describe:

If yes, please explain: Throughout the Districts service area, NCMCD has approximately 225 schools and 250+ day cares that must comply with this law. Each school/day care has been located either through parcel maps, when available, or through geocoding, combined with aerial photography. These properties are excluded from routine applications. The exclusion zones are clearly marked on the ULV route maps that are posted on the districts website in an effort to keep the public informed of the exclusionary status of these areas.

Work on any biological control projects, such as enhancement of habitat for native

If you have data on compliance rates with the CFPA within your program area, please list here:

Describe any difficulties you have had with the implementation of your program due to the CFPA, please elaborate here:

Comments:

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT PROGRAM

Did your program report any adverse incidents during this reporting period? No

If yes, please list any corrective actions here: _____

GENERAL COMMENTS

Please add any comments here for topics not covered elsewhere in this report: <u>The summe's of 2019/2020 saw a historic outbreak of EEE in the region/state.</u> The District continues to meet with various stakeholders to determine possible ways to proactively prepare for EEE outbreaks in the future.