RICHMOND COUNTY MOSQUITO CONTROL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

FOLLOW UP REPORT
Surveillance is the backbone of the NPDES Program

VISUALLY CHECK FOR

Large scale larval habitats in rural areas
Surveillance is the backbone of the NPDES Program

**VISUALLY CHECK FOR**

Large scale larval habitats in Urban Areas
MOSQUITO POPULATION LEVELS

• **ESTABLISHED BY:**
  
  – *Landing rate counts*
  
  – *Citizen complaints*
  
  – *Trapping*
  
  – *Prior history*
Continually monitor major sources of larval and adult mosquitoes
MAPPING FOR BOUNDARIES

Utilize GIS Mapping To establish spray Buffer zone for the Required 300 foot barrier from State waters
WHY 300 FEET?

100 FEET FOR LABEL
+
200 FEET FOR TRUCK SPRAY PATTERN
=
300 FEET
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<th>Name</th>
<th>Address</th>
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<tr>
<td>ROYAL ANU MANU (KOPS)</td>
<td>2504 Willow Creek Dr</td>
<td>(706) 882-5831</td>
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<td>WILLLOW CREEK (00150)</td>
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<tr>
<td>BERRIOANGLS RESIDENTIAL PROPERTIES LLC</td>
<td>2907 Tupelo Dr</td>
<td>(706) 812-5831</td>
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<td>BERRIOANGLS RESIDENTIAL PROPERTIES LLC</td>
<td>2608 Tupelo Dr</td>
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<td>BERTLING PHILIP</td>
<td>2608 Willow Creek Dr</td>
<td>(706) 888-5831</td>
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<td>BLACKSTOCK DAVID</td>
<td>2541 Tupelo Dr</td>
<td>(706) 884-5831</td>
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<td>BERRY L M</td>
<td>2908 Millwood Dr</td>
<td>(706) 885-5831</td>
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<td>BROOKE ARTHUR L J TRL</td>
<td>2918 Tupelo Dr</td>
<td>(706) 886-5831</td>
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<tr>
<td>BROWN WILLIAM</td>
<td>2602 Willow Creek Dr</td>
<td>(706) 887-5831</td>
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<tr>
<td>BRYANT CLINT L</td>
<td>2606 Willow Ridge Dr</td>
<td>(706) 887-5831</td>
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ACTION THRESHOLDS

LARVAE

One per Dip
**ADULT ACTION THRESHOLD**

2 Service Requests per block

2 Calls per block

Or subdivision

History

Search the files
ADULT ACTION THRESHOLD

Landing Counts

Any combination of 10

5 per minute

Trapping

Any combination of 10
SOURCE REDUCTION

• Remove or modify egg laying sites

• Maintain contact with county agency responsible for ditches and impoundments

• Maintain familiarization with health nuisance abatement policy
BIOLOGICAL CONTROLS

Mosquito Fish

Natural Predators
CHEMICAL CONTROL

THE LABEL IS THE LAW
LARVICIDES

• VARIOUS FORMULATIONS

• Microbial such as BTI or BS

• Growth regulators such as Methoprene

• Monomolecular films such as “Agnique”
LARVICIDES

• **MUST** be applied at label rates and directions
ADULTICIDING

• Adulticides are generally applied as:
  
  • Ultra Low Volume spray from a truck
  
  • Barrier spray
  
  • Thermal fog
ADULTICIDING

Surveillance will form the treatment plans for the target area

- **ADULTICIDES should only be applied when:**
  - Established thresholds have been exceeded
  - Target species is active
  - Wind & rain activity is at minimum
  - Outside the 300 foot buffer from state waters
ADULTICIDES

• **MUST** be applied according to label specifications

• **MUST** be registered with the EPA
ADULTICIDES

• ADULTICIDES THAT WE USE:

• Must be applied at label rates.

• The equipment must be kept calibrated and maintained.
MONITORING FOR EFFICACY/RESISTANCE

• **Apply** at recommended rates being careful not to **under dose**

• **Surveillance** should be done frequently to monitor control efficacy.
PUBLIC EDUCATION PROGRAMS

Power Point Programs

Handouts

RADIO  NEWSPAPERS  TV PROGRAMS  TV NEWS
RECORD KEEPING

THE FOLLOWING INFORMATION IS THE MINIMUM REQUIRED
RECORD KEEPING

- **APPLICATORS** name, address and license number
- **APPLICATION** date, time, temperature, wind speed and direction
- **PRODUCT** name and registration number
- **LOCATION** and size of the area treated
- **AMOUNT** of material applied
- **APPLICATION** rate
- **EQUIPMENT** maintenance and calibration logs
MOSQUITO WORKERS SAFETY

• Mosquito workers must use approved methods of handling all chemicals to include

  – Eye protection or face shield
  – Breathing masks
  – Chemical proof gloves
  – And any other requirements set forth on the product label or MSDS sheet
SECURITY MEASURES

• Vehicles locked at all times when not in use

• All vehicles kept in the locked facility at 5098 Mike Padgett Hwy when not in use by Mosquito Workers.
SECURITY MEASURES

• Keys and Fuel Man cards must be removed from the vehicles when not in use

• Gates to 5098 MP must be kept locked when workers are not present
MY IMPRESSIONS

I LIKE IT

BECAUSE
BECAUSE

• IT FORCES US TO DO THE RIGHT THING
BECAUSE

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• MORE ONE ON ONE EDUCATION WITH CITIZENS
BECAUSE

• IT FORCES US TO DO THE RIGHT THING

• MORE ONE ON ONE EDUCATION WITH CITIZENS

• BETTER PLANNING AND EXECUTION
BECAUSE

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• MORE ONE ON ONE EDUCATION WITH CITIZENS

• BETTER PLANNING AND EXECUTION

• BETTER USE OF MANPOWER & RESOURCES
2012

TO SAY THAT 2012 WAS AN UNUSUAL YEAR WOULD BE AN UNDERSTATEMENT
Mosquito Control Complaints For 2012

- January: 7 complaints
- February: 3 complaints
- March: 11 complaints
- April: 65 complaints
- May: 96 complaints
- June: 209 complaints
- July: 177 complaints
- August: 381 complaints
- September: 389 complaints
TOTAL COMPLAINTS  2012

1,425

2011=512
QUESTIONS
THANK YOU