

*Call The Bomb Squad,
To Be concluded*



Revamping The City of Hinesville's Mosquito Control Program





Mosquito Control

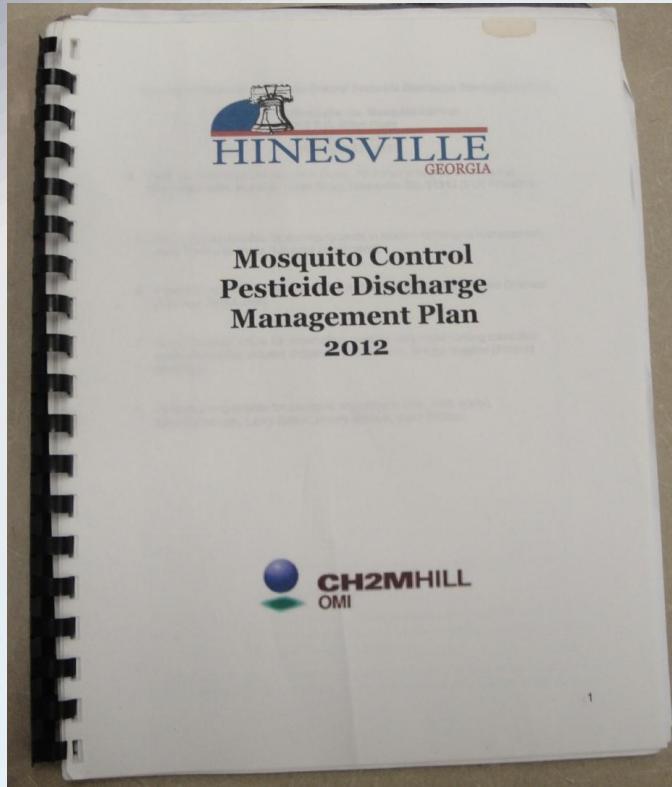


Purpose

Re-Vamping The City of Hinesville's Mosquito Control Program

To abate the mosquito population in the City with minimal impact on the environment and citizens.

Operate the program while under the regulations of The Hinesville PDMP



The City of Hinesville,

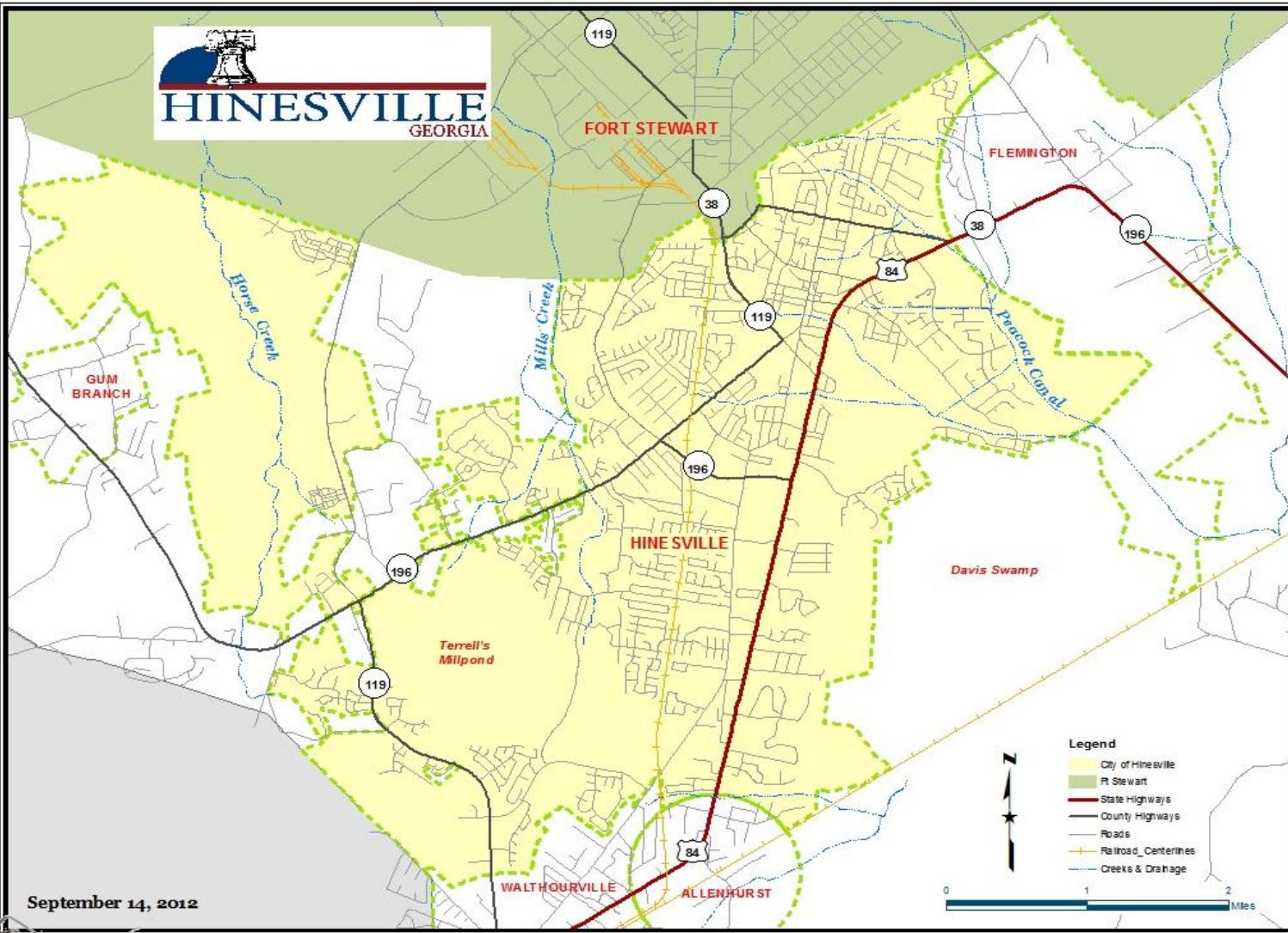
Georgia is located in Liberty County, which is in the Lower Coastal Plain Physiological Region of the state. The total square miles for Hinesville is 21.18.

The area is bordered by Fort Stewart Army Installation to the North, Long County to the West, the cities of Allenhurst and Walthourville to the South, and Flemington and Liberty County to the East. Hinesville has Terrell's Millpond within its city limits and Davis Swamp outside its city limits to the east.

Horse, Mill and Peacock Creeks serve as floodplains drain through the city.



The City of Hinesville,



Treatment History and Method

Prior to the coming aboard of the new administration in 1978, mosquito control was already in motion. The program started with a need to create a healthy and tolerate environment for the citizens and visitors of Hinesville GA. The program launched of with to spray trucks that used a chemical call Malathion, which had a very offensive smell. In 1997 New Jersey traps were brought on the scene as a surveillance (trapping) tool. The mosquitoes that were collected from the traps were delivered to the Liberty County Health Dept. The Liberty County Health Dept was responsible for separating the males from the females where in a report was generated and given to The City of Hinesville reflecting the mosquito count, thus threshold levels were developed. A female count of 60 from any zone or route initiated the spraying of all zones or routes. To this day, New Jersey traps are still being used as a means of mosquito collection.





(Purpose)- To help create better communities and companies through innovative operations and maintenance solutions

(What do we do)-CH2M HILL partners with communities and companies to deliver a complete range of custom-tailored operations and maintenance solutions. Our sustainable O&M solutions include water and wastewater system optimization; contract O&M of water, wastewater and other utilities; facilities management; and complete municipal operations, including administration, public works and community development – all backed by a commitment to safety, quality, innovation and customer service.



Because we stand behind our commitment to safety, quality, innovation and customer service we were obligated by those very attributes to regroup and form a huddle of brainstorming that would in return produce solutions that when put into motion, will provide the citizens of Hinesville with a comprehensive program. This is where revamping started

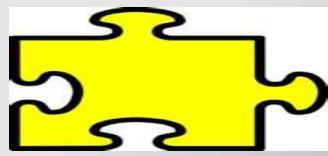


What pieces of the past program were we going to take up first?



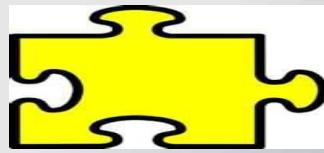
Well, first we had to yield and pick up the peace that dealt with the **SAFETY** aspect of the program





What did we find?



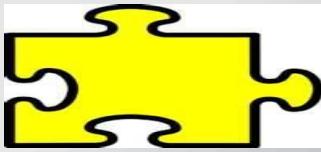


Program safety



- New Jersey traps weren't properly grounded
- Faulty patching of wiring
- Fogging was not discontinued when close to the citizens
- Due to old construction, Chemicals storage areas had limited vitalization
- Spill kits were not carried in the trucks by operators





Program Quality



See LAST PAGE

Page - 1
PARKS & GROUNDS
MOSQUITO CONTROL ROUTE
(MONDAY)

DRIVER _____ SECTION _____ DATE _____

INSTRUCTIONS FOR MOSQUITO CONTROL DRIVERS
+-----+-----+-----+-----+-----+
DO NOT SPRAY = If it is RAINING or if the WIND VELOCITY is
over 15 MPH, and finally if the TEMPERATURE is below 55
degrees.
WIND VELOCITY & WEATHER = 1-912-964-1700
LOCAL TEMPERATURE & WEATHER = 369-1234

POINT OF CONTACTS (If needed)
+-----+-----+-----+
1st Point of Contact = [REDACTED] (360-667-0123 / 360-667-0124)
2nd Point of Contact = [REDACTED] (360-667-0125 / 360-667-0126)
3rd Point of Contact = [REDACTED] (Cell 360-667-0123)

FOR ANY MAINTENANCE PROBLEMS CONTACT = [REDACTED]
+-----+-----+-----+
863-222-0000

ADDRESS/STREET
INITIALS WHEN COMPLETED

(ALL DRIVERS CHECK & FOLLOW PAGE - 1 & 4 VERY CAREFULLY)

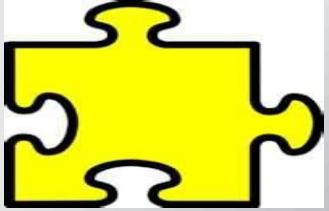
_____ FLEMING HWY 84 E.
_____ FURNITURE WORLD PLAZA
_____ # 1725 (Dirt Road runs to house)
_____ # 1753 (Paved road runs to house)
_____ [REDACTED] HOUSE (Pull into Car Port Back up & Spray
Swiming Pool Area)
_____ [REDACTED] HOUSE=Spray behind house and then go to
Greybeard Ln.
_____ GREYBEARD LN. (Circle [REDACTED]'s house)
_____ SPIRES DR. (ENSURE TO SPRAY AROUND BOTH HOUSES.)
_____ HINESVILLE CHURCH OF GOD (SPRAY ENTIRE AREA)



- New Jersey traps were found in poor conditions.(poor maintenance practices)
- The location of the traps were not placed in representative locations.
- The traps had to be in locations with a electrical outlet.
- The old way of running the routes were not ethically sound.
- There was no justification for high operation expenses .

After Bringing the pieces of quality assessment to the table to continue the process of revamping, what peace did we pick up next?



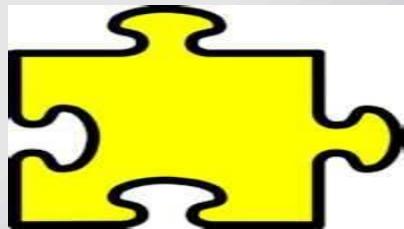


Well, we had to pick up the pace of educating our employees



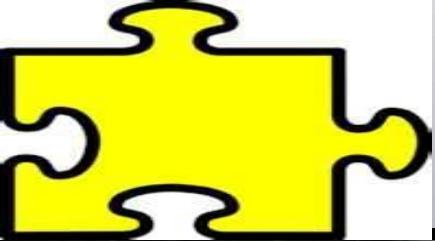
Field Training





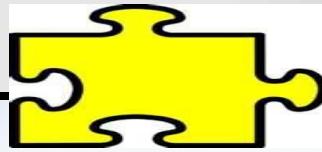
Which included Interactive class room training





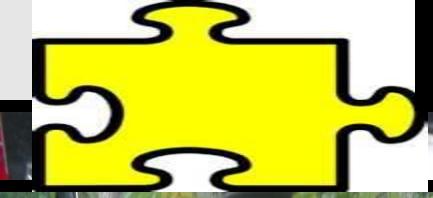
The next peace to pick up was the team's commitment to source reduction





Teamwork with the Streets and Drainage





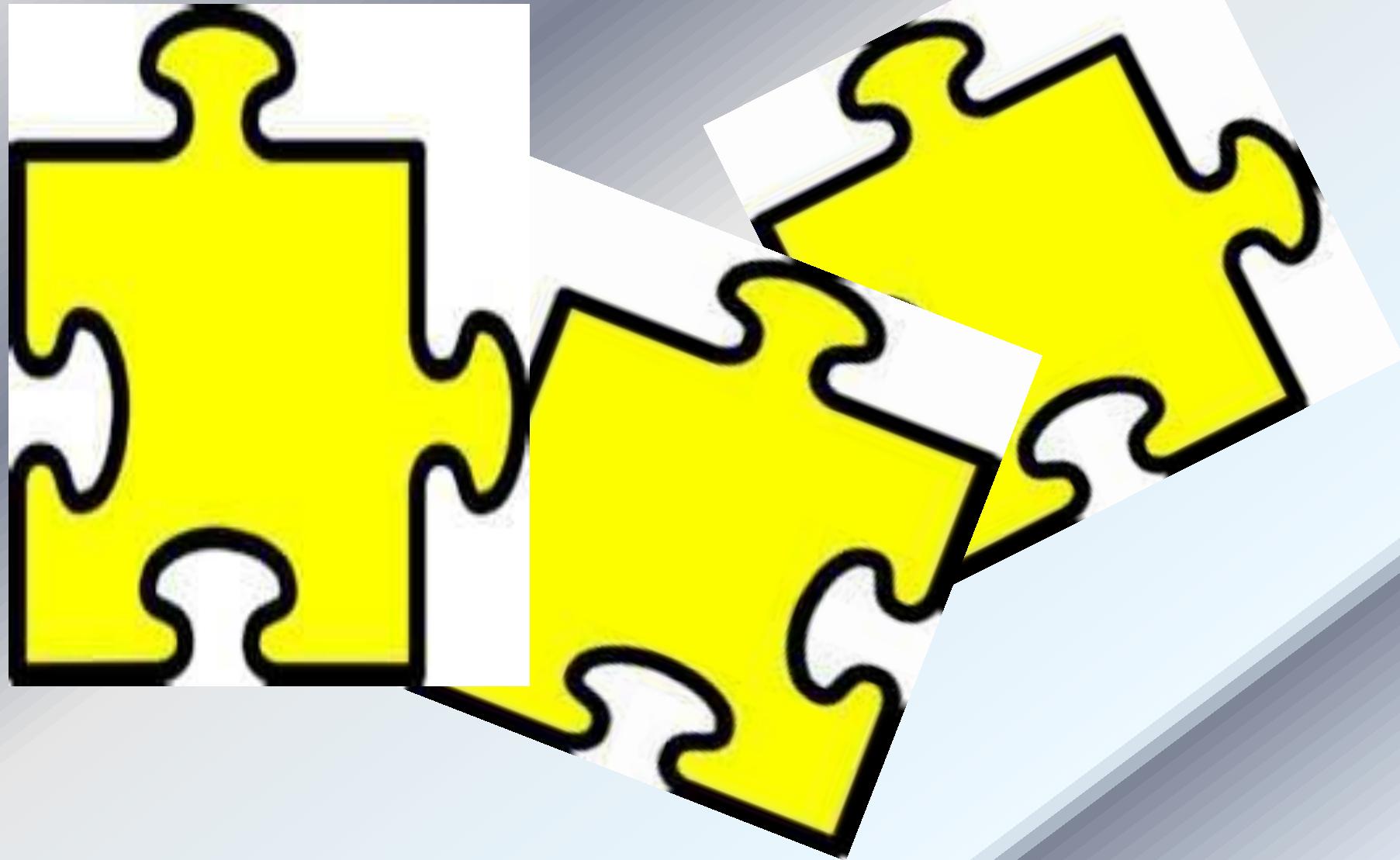
Teamwork with Construction Maintenance

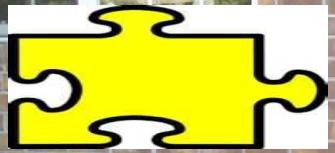


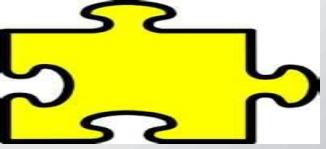


Team work added numerous pieces to the puzzle

Next Peaces, Public Education

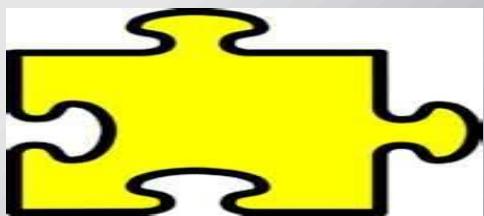






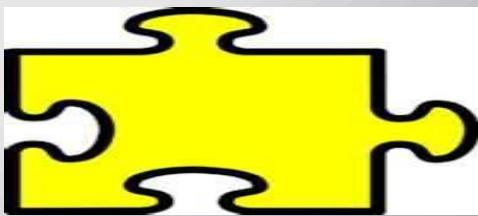
Public education allows the public to become more aware so that they can fulfill their roles in pushing the pieces together





The Enforcer





Chapter 12 OFFENSES AND MISCELLANEOUS PROVISIONS*

***State law references: Criminal Code of Georgia, O.C.G.A. § 16-1-1 et seq.**

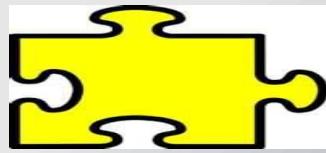
ARTICLE III. OFFENSES INVOLVING PUBLIC HEALTH

Sec. 12-70. Stagnant water.

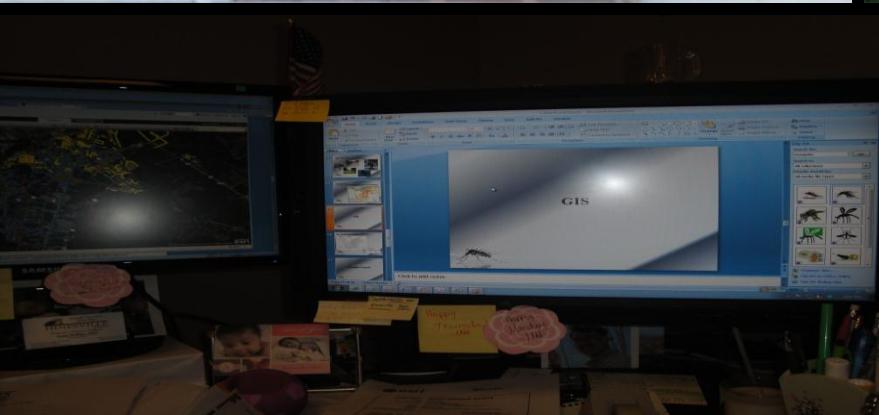
It shall be unlawful for any owner or occupant of property within the City to allow a pond, barrel, tin can, vehicle tire, or any container, in which water does or might collect and stagnate, or fail to remedy same within seven days after water collects therein, by draining or filling any such pond and by removing any such container. In the event it is not practical to drain or fill such pond, the same shall be effectually treated against mosquito breeding to the satisfaction of the Health Officer.

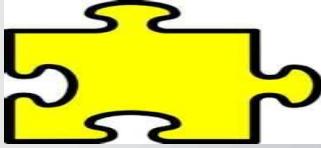
(Code 1978, § 12-33)

Becky Widincamp

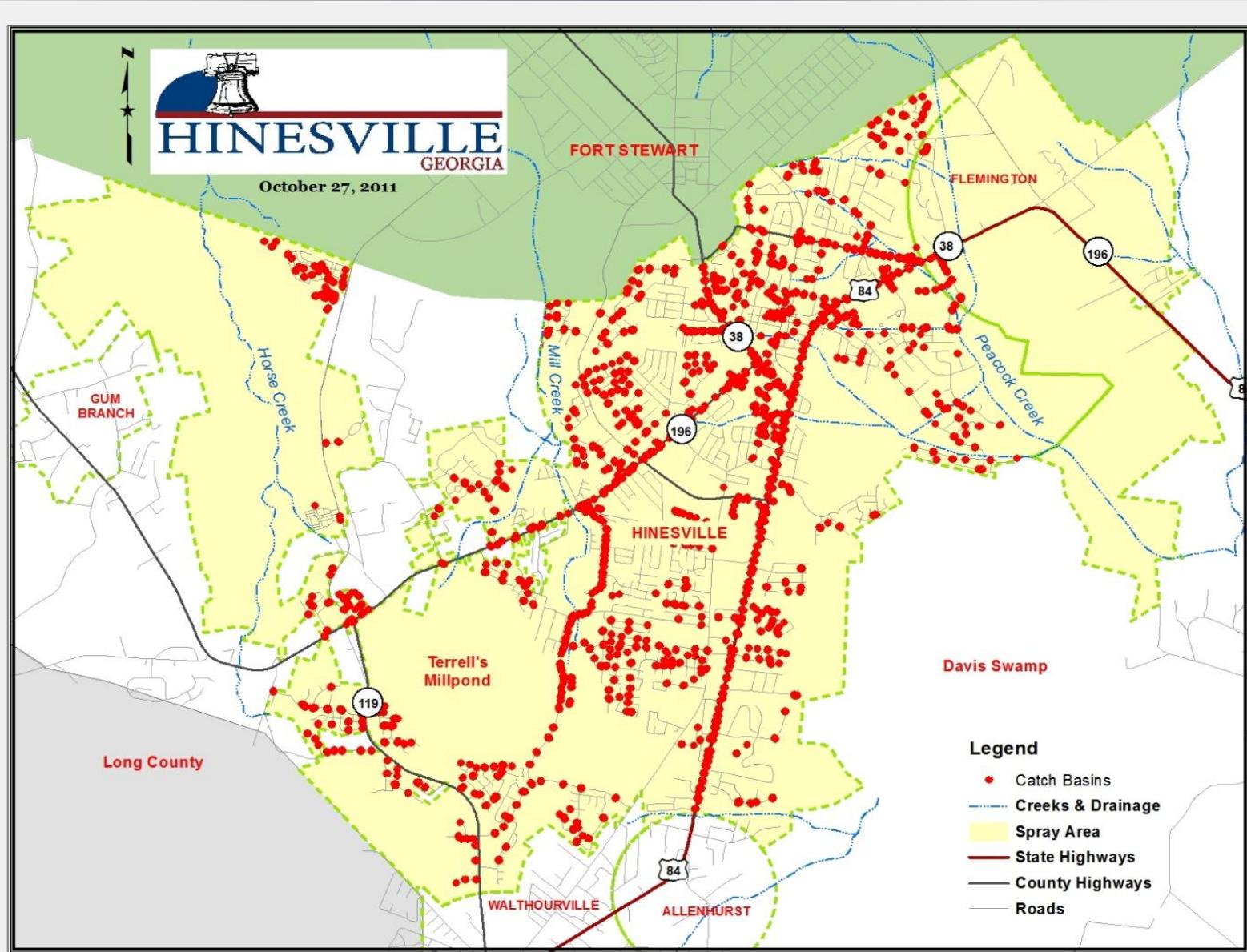


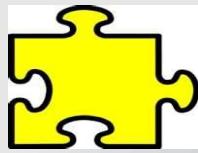
Next, Inventory and Data Collection(GPS\GIS)





Inventory



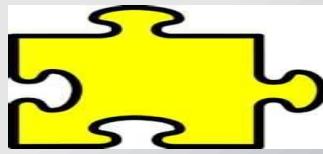


Which makes it for easy Inspections, documentations, and record keeping

Screenshot of ArcGIS Explorer Online interface showing a map of Stormwater Structures in the City of Hinesville.

The map displays various stormwater infrastructure and inspection points. Key features include:

- Stormwater Structures City of Hinesville**: A title banner at the top center.
- Legend**: Located on the left side, listing categories such as Larva_Found, COMPLAINT, OBSERVATION, TESTING, THRESHOLD, Catch_Basin1, Catch_Basin2, Grate_Inlet1, Grate_Inlet2, Other_StormStructures (JUNCTION BOX, OCS, OUTFALL, OUTLET, STORM DRAIN, WEIR), and MondaySprayZone.
- MondaySprayZone**: Indicated by a yellow line on the map.
- Infrastructure Symbols**: Blue squares for Catch_Basin1, blue diamonds for Catch_Basin2, green squares for Grate_Inlet1, red circles for Grate_Inlet2, and various colored symbols for other structures like JUNCTION BOX, OCS, OUTFALL, OUTLET, STORM DRAIN, and WEIR.
- Red Lines**: Represent boundaries or spray zones.
- Yellow Lines**: Indicate specific spray paths or routes.
- Labels**: Street names like Elmington, Elmwood, and various roads labeled 196.
- Basemap**: Bing satellite imagery.
- Navigation**: Includes a zoom slider, a bottom navigation bar with icons for 1 through 5, and a bottom right corner showing "POWERED BY esri" and "100%".



http://www.arcgis.com/explorer/?open=4f4583ede0bd48259b25b5601: ArcGIS Explorer Online

File Edit View Favorites Tools Help

Page Safety Tools

Mosquito_Spray - Copy

Mapping Presentation

Anna Phillips

Map Legend

- Larva_Found
- COMPLAINT
- OBSERVATION
- TESTING
- THRESHOLD

- Catch_Basin1
- Catch_Basin2
- Grate_Inlet1
- Grate_Inlet2

- JUNCTION BOX
- OCS
- OUTFALL
- OUTLET
- STORM DRAIN
- WEIR

- MondaySprayZone

Citizen's Complaint

Mosquito Inspections

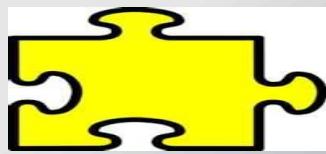
DATE	7/16/2012
ADDRESS	440 TIMBERLANE
MOSQ_FOUND	
LARV_FOUND	
COMMENTS	DRP 0542 0638 PCK
REQST_TYPE	COMPLAINT
ACTION_TAK	
DRP_TIME	
PCK_TIME	
TRAP_TYPE	
Treated	
Type_Treat	

bing esri

1 2 3 4 5 100%

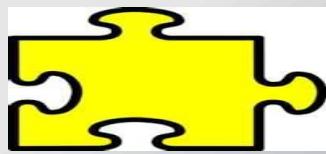
Danbury Rd., Newell St., Main St., Old Bridge, Rock Cochran St.

This map displays mosquito inspection data and spray zones. It includes symbols for larva found, complaints, observations, testing, thresholds, catch basins, grate inlets, and various storm structures like junction boxes, OCS, outlets, and weirs. A prominent yellow line indicates the Monday Spray Zone. A citizen's complaint is marked with a red circle. A detailed callout shows a mosquito inspection record for 7/16/2012 at 440 Timberlane, categorized as a complaint. The map also features a Bing watermark and Esri branding.



Work order system

Maintenance connection



Request

**Work Order HIN-PG-311281**

Hinesville Parks and Grounds
Closed
Printed 10/8/2012 - 4:43 AM

Maintenance Details

Requested By: GRAHAM, KENNA on 10/5/2012 4:10:00 AM
Taken By: GRAHAM, KENNA
Target: 10/4/2012 (1.5) hrs
Priority/Type: Low Priority / Inspection
Supervisor: GILLIARD,GARY
Shop: HIN-STREET DEPT

Reason: inspect area to see if it was conducive to mosquito emergence

Eastern Municipal Projects
 Hinesville (HIN)
 Hinesville Streets Department
 Hinesville City Streets
 Belmore
 Granger Dr 900-918, 901-919 (HIN-STREETS-0538-001)

Contact: GRAHAM, KENNA
Phone:

Tasks

#	Description	Rating	Meas.	Initials	Failed	Complete
10	Inspect site to see if area was conducive to mosquito emergence			KG	<input type="checkbox"/>	<input checked="" type="checkbox"/>
					<input type="checkbox"/>	<input type="checkbox"/>

Labor

Labor	Account	Assigned	Work Date	Start	End	Reg Hrs	OT Hrs	Other Hrs
GRAHAM, KENNA		10/4/2012 / 1.5						

Materials/Tools

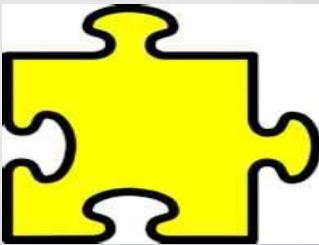
Item	Location	Account	Est Qty	Actual Qty

Labor Report

Completed: _____ Failure: _____
Report:

Approvals

Name	Approval Date	Description



Inspection sheet attached to request

Mosquito Inspection Report

Name: Kenna Graham License #: 03953

Date: 10/4/2012 Time: 5:05 PM

Owner: Brian Phone #: 912-572-8493

Address/ Parcel #: 907 Granger

Service Request: Customer concern that because flood is a issue in his area that West Nile can become a problem

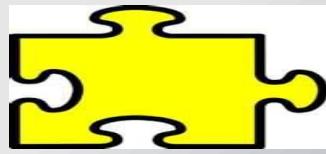
Problem Areas				
Swimming Pool	YES	✓	NO	Remarks
Pond	YES	✓	NO	Remarks
Tires	YES	✓	NO	Remarks
Containers	YES	✓	NO	Remarks
Tarps, Covers	YES	✓	NO	Remarks
Boats, Auto	YES	✓	NO	Remarks
Trailers	YES	✓	NO	Remarks
Roof Gutters	YES	✓	NO	Remarks
Planters, Dishes	YES	✓	NO	Remarks
Children's Toys	YES	✓	NO	Remarks
Pet, Livestock Water	YES	✓	NO	Remarks
Excess Vegetation	YES	✓	NO	Remarks
Storm Drains	✓	YES	NO	Remarks
Ditches	✓	YES	NO	Remarks
Retention Ponds	YES	✓	NO	Remarks
Low Areas	✓	YES	NO	Remarks
Adult Mosquitoes	YES	✓	NO	Remarks
Mosquito Larvae	YES	✓	NO	Remarks

Comment

Visited Brian at his house. There was water standing water in the storm drain near his house and in the ditched near his house but the area had received rain the night before. I performed a landing count test and not one mosquito landed on me at the time, which is not a major concern. Whenever there is no rain in the forecast, I will set out mosquito traps in that area to sample for Culex Species which is a West Nile vector (carrier). At that date and time the environment was not conducive to mosquito breeding i.e. temperature and water retaining time.

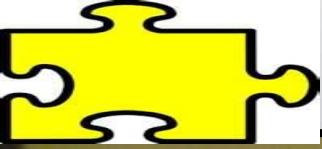
Sign: Kenna Graham

Date: 10/5/2012



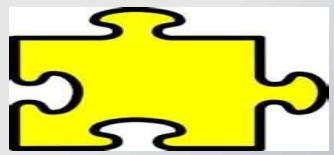
Modern Day Technology





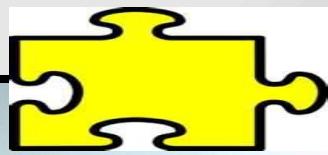
Microscope (S8APO) and Camera





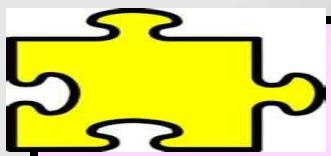
Now we perform mosquito counts, gender separation, species identification and also send mosquito poles to Danny (UGA) to be tested.

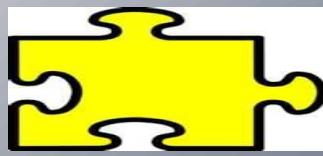




Microscope (Camera)







Back to the Bomb Squad.

Coastal Courier
July 19, 2012

Insect trap mistaken for bomb

Street closed, residents evacuated as authorities investigated

By Lewis Levine

Coastal Courier correspondent

POSTED: July 19, 2012 4:11 p.m.



Lewis Levine

A mosquito catcher caused quite a stir Wednesday when it was mistaken for a bomb. A street was cleared and GBI was on its way when authorities on site realized the mechanism in question was an insect trap, not an explosive device.

[View Larger](#)

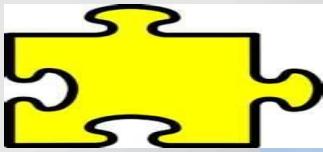
A case of misidentification sent emergency personnel scrambling and closed streets Wednesday night in Hinesville.

According to an incident report filed by Hinesville Police Department Patrolman Robert Smith, a mechanism thought to be an explosive device was found in the backyard of a home in the 500 block of Myrtle Lane.

Smith said he was dispatched to the home of Sharee Fountain shortly after 8 p.m., where Fountain told the officer she left her home around 6:30 Wednesday morning and returned later that evening to find a device covered in a trash bag in her backyard near the driveway. The device, Fountain said, was humming, had wires coming from it and was connected to a battery.

Smith, who was unsure what the device was, described it in his report as a plastic container like a drain pan with metal-frame bars and a black cone connected to a battery.

Within minutes, the quiet street was sealed and teeming with Hinesville Fire Department trucks, police and members of the Liberty



Which concluded the first stage of revamping



Next Year 2013



A1 Mist Sprayers Resources, Inc. 3 PT TERMINATOR®

*Fan rotation—Hydraulic/manual (standard) or electric (optional) *Hydraulic hoses not included

*Fan rotates 210° left to right (including straight up & down) *Lower profile than competition with 55 & 110 gal tank

*Weight 53" Width 32" Length 48 1/2" *Empty weight 420 lbs, 878 lbs full *Hose: dip galvanized (no paint, no peel, no rust)

*Fan safety ring: (longer life & safety feature) *** *5/8" safety bar with stump jumper design to protect undercarriage

*PTO Powered by 20-300 HP tractor at 540 RPM *12V Diaphragm Pump 5 GPM (Standard); Roller pump (optional)



HIGH PERFORMANCE PTO & ENGINE DRIVEN MIST SPRAYERS, BLOWERS, FOGGERS, PARTS & ACCESSORIES

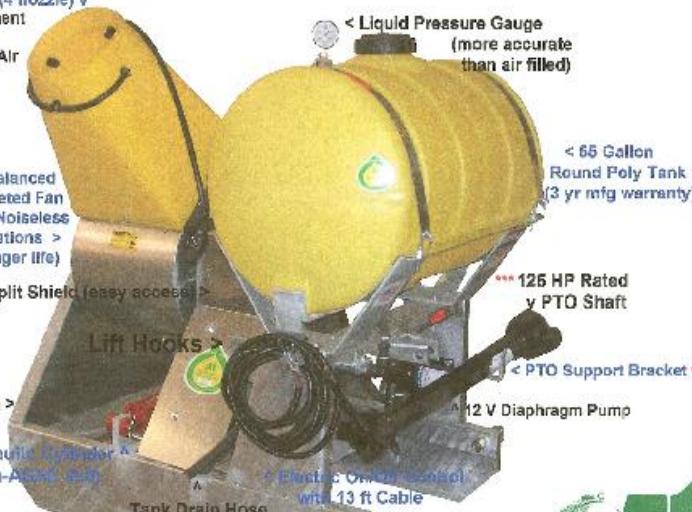
Cannon Round Poly Volute (4 nozzle) v
Standard Equipment Better Pattern More CFM's of Air

Super-Balanced
Huck Riveted Fan
Class III, Noiseless
No Vibrations
(3-5 yr longer life)

Split Shield (easy access)
Lift Hooks
Rolled Back
80% Stronger
than Competition

Hydraulic Cylinder
(non-Airless style)
Electric On/Off Switch
with 13 ft Cable
Tank Drain Hose

Cat I Hitchpins
Cat II Sleeves
Stump Jumper Design
*** Only A1 Has This Feature



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402-755-4238 Fax 402-755-4743
Toll Free 877-924-2474 or 877-524-2479
Visit us at www.mistsprayers.com or
e-mail us at sales@mistsprayers.com