



CERTIFICATE OF AUTHENTICITY

THIS IS TO CERTIFY THAT THE FOLLOWING ELECTRONIC RECORDS ARE TRUE AND ACCURATE REPRODUCTIONS OF THE ORIGINAL RECORDS OF JAMES CITY COUNTY GENERAL SERVICES DEPARTMENT- STORMWATER DIVISION; WERE SCANNED IN THE REGULAR COURSE OF BUSINESS PURSUANT TO GUIDELINES ESTABLISHED BY THE LIBRARY OF VIRGINIA AND ARCHIVES; AND HAVE BEEN VERIFIED IN THE CUSTODY OF THE INDIVIDUAL LISTED BELOW.

BMP NUMBER: 99151

DATE VERIFIED: August 23, 2012

QUALITY ASSURANCE TECHNICIAN: Leah Hardenbergh

Leah Hardenbergh

LOCATION: WILLIAMSBURG, VIRGINIA

Contents for Stormwater Management Facilities As-built Files

Each File is to contain:

- 1. Maintenance Agreement
- 2. Construction certification
- 3. As-Built plan
- 4. Design Calculations
- 6. Correspondence
- 7. Inspection records
- 8. Miscellaneous

MC007 - by Hickory Signpost Rd

- Surface area = $21,000 \text{ ft}^2$ or 0.48 ac

- Total Storage = 1.44 acft - perm.
 1.94 " " - temp.

 3.38

MC016 -

surface area = ~~$57,500 \text{ ft}^2$~~ = ~~1.3 ac~~ 0.65 ac

Total Storage = 1.96 acft - perm
 3.23 acft - temp

 5.19 acft total

MC029

surface area - $\approx 0.11 \text{ ac}$ or $50,000 \text{ ft}^2$

total storage - perm. 0.34 acft

MC030

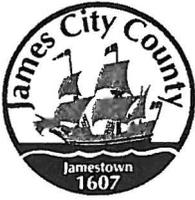
surface area - $6500 \text{ ft}^2 = .15 \text{ ac}$

perm. storage - 0.45 acft

Steve Quick - Settler's Mill HOA

Reserve study -

Surface area - relation to dredging -



DEVELOPMENT MANAGEMENT

101-E MOUNTS BAY ROAD, P.O. BOX 8784, WILLIAMSBURG, VIRGINIA 23187-8784
(757) 253-6671 Fax: (757) 253-6850 E-MAIL: devtman@james-city.va.us

CODE COMPLIANCE
(757) 253-6626

codecomp@james-city.va.us

ENVIRONMENTAL DIVISION
(757) 253-6670

environ@james-city.va.us

PLANNING

(757) 253-6685

planning@james-city.va.us

COUNTY ENGINEER

(757) 253-6678

INTEGRATED PEST MANAGEMENT

(757) 253-2620

October 20, 2004

Ms. Susie Powell
Settlers Mill HOA
109 Harvest Circle
Williamsburg, Va. 23185

Re: Settlers Mill Subdivision
Stormwater Management/BMP Facilities

Dear Ms. Powell:

At your request, the Environmental Division has performed inspections of stormwater management/BMP facilities within the Settlers Mill community and offers the following information in regards to required maintenance. All the BMPs in Settlers Mill are wet ponds with basic configurations similar to many other basins in the County. The following is a general list of BMPs within Settlers Mill.

BMP ID	Section	Location	Drainage Area
MC 007	Section 5 & 6	Along Hickory Sign Post Road	30.97
MC 016	Section 3	Large Pond, west of 117 Harvest Circle	54.15
MC 030	Section 2	Pond # 2, east of 136 Hearthside Lane	13.57
MC 029	Section 2 & 3B	Pond # 1, west of 117 Mill View Circle	6.36

The maintenance recommendations as offered for each of the BMPs only address stormwater function and structural integrity as it pertains to the facilities. Other landscaping, cosmetic or ornamental features are usually left to the discretion of the Owner, or its designated representative, unless these features deter from the structural integrity or the performance of water quality/quantity controls as designed and constructed for the facility.

MC 016 (Large Wet Pond):

This pond is the largest of all the four BMPs in Settlers Mill in both size and drainage area. From our perspective, the following were the main points of concern for this BMP.

- The asbuilt plans show a 6-inch diameter low flow orifice on the 48-inch concrete pipe riser structure (principal flow control device). The orifice is intended to control normal pool of the pond at Elevation 22.75. The normal pool of the pond appears to be at the riser crest, which is about 2 feet higher than design normal pool; thus indicative of clogging of the 6-inch low flow orifice. Clean and remove all debris and/or obstructions from the 6-inch orifice.

- Clean and remove trash and floating wood pieces from the outside the cap (trash rack) on the 48-inch riser structure.
- The BMP has a 30-inch diameter pipe (barrel) which runs from the riser through the dam embankment. This barrel outlets on the downstream side of the dam. Clear and remove fallen trees and brush from across the outfall end of the 30-inch barrel.
- Although not required at this time, sediment was noted about 1 ft. deep around the 48-inch riser. In the future, sediment may need to be removed around the vicinity of the riser as to not obstruct flow into the principal spillway.
- Remove trees, brush and logs from the downstream portion of the emergency spillway. The emergency spillway is situated at the south end of the dam. Although the level part of the emergency spillway was recently cleaned, debris on the steeper sloped portion of the spillway is restricting flow out of the level (flat) portion of the emergency spillway. Due to restriction of the channel section, increased velocities are starting to erode the spillway and the dam embankment. This may threaten the structural integrity of the dam if not corrected.
- Remove fallen trees and debris from the outfall of Pipe # 1. Pipe # 1 is a 12-inch outfall pipe from the storm drainage piping system along Holly Grove. This pipe system outfalls into the natural channel which then outfalls into the south fork of the BMP. Removal of trees and debris is only necessary at the immediate outfall area, within about 10 or 15 feet of the VDOT energy dissipator structure.

MC 030 (Small Wet Pond):

This pond is one of two smaller wet ponds situated between Sections 3-B, 2-A and 2-B and is situated just south of the end of Hearthside Lane. From our perspective, the following were the main points of concern for this BMP.

- Some sparsely vegetated and bare soil areas were present on the left (north) side of the downstream dam embankment. Stabilize with matting, seed and mulch or other acceptable ground covers.

MC 029 (Small Wet Pond):

This pond is one of two smaller wet ponds situated between Sections 3-B, 2-A and 2-B and is situated just north of Mill View Circle. It is the smallest BMP in the community in both size and drainage area. From our perspective, the following were the main points of concern for this BMP.

- Clear and remove small saplings and brush from the rock within the concrete wingwall structure where the 12-inch outlet pipe (barrel) comes out through the dam.
- Clean and remove all litter from the normal pool area of the BMP including trash, bottles and the empty propane tank cylinder.
- Seed and mulch bare soil areas on the top left (north) side of the dam.
- The entire normal pool of the BMP has a severe problem with surface aquatic vegetation. Although not considered a hazard to the stormwater function or structural integrity of the BMP, it is a detrimental aesthetic feature, possibly due to stagnant or deteriorated ecological conditions of the BMP. Currently our division evaluates stormwater management facilities from a structural and stormwater function perspective and in most cases, the presence of algae or invasive vegetation generally are not detrimental to these components. It is our intent to sometime in the near future provide educational material to pond owners providing guidance on this matter. It is

our recommendation that the a lake management company, which specializes in biological treatment, or perhaps another qualified professional such as the biology department at the College of William & Mary be contacted to identify the aquatic specie and find out the best way of treatment. Solutions may include: aeration, biological or chemical treatment and/or draining the pond and letting the natural ecological system establish itself again. *(Note: A sample of the aquatic vegetation was taken during our field inspection. Based on information and agency databases available at our office we were not able to easily identify the aquatic specie; although, it may appear to be Azolla caroliniana. We are currently looking into this situation further so that we can try to further assist the HOA.)*

MC 007 (Wet Pond):

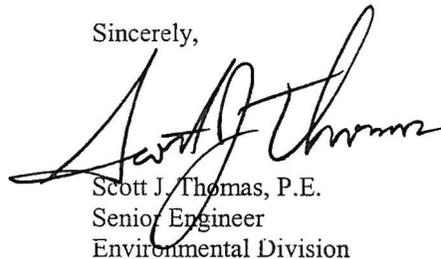
This pond is a smaller wet pond situated in Sections 5 & 6 along Hickory Sign Post Road. This BMP was not part of the recently conducted inspection as this section/phase of Settlers Mill is still considered active and our Division holds \$ 20,000 in siltation bond. Our process is to performed a detailed review of asbuilt (record) drawings and construction certifications for this BMP once they are submitted and perform a final inspection. The developer will be informed of any deficiencies that need corrective action prior to bond release. As of the date of this letter there has been no formal requests nor any action taken to reduce or release the bond for this section.

Other

Education of residents about aspects of watershed awareness and the prevention of pollution into storm drainage systems should be an prime objective for the association. Of importance for this development is education about the overuse of nutrients in yard turf areas, proper disposal of grass clippings and yard wastes and maintaining pond buffers around the BMPs. Existing trees and ground cover should be preserved within pond buffers (25 feet minimum suggested) to the greatest extent possible, rather than use of turf to the water's edge. Native trees, shrubs and ground cover within the pond buffer help to filter and infiltrate runoff from impervious and managed turf areas, stabilize banks to minimize erosion, provide shade to reduce thermal increases and deter direct access to the waters edge. For additional information, visit our PRIDE website at www.protectedwithpride.org

Hopefully, this material is helpful to your association to understand maintenance requirements for the BMP facilities. If you have any additional comments or questions, please call me at 757-253-6639.

Sincerely,



Scott J. Thomas, P.E.
Senior Engineer
Environmental Division

SJT/sjt

CC: Molly Roggero, Environmental Division

Shared\SWMPProg\Education\Subdivisions\SettlersMill.let1



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(757) 253-6670

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PLANNING

(757) 253-6685

planning@james-city.va.us

COUNTY ENGINEER

(757) 253-6678

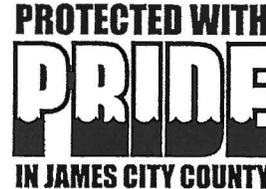
INTEGRATED PEST MANAGEMENT

(757) 253-2620

June 14, 2004

Ms. Susie Powell
109 Harvest Circle
Williamsburg, Va. 23185

Re: ~~Settlers Mill Subdivision~~
Stormwater Management Facilities



Dear Ms. Powell:

As promised, I am forwarding some "*first contact*" information for your community association to use relative to watershed education and maintenance of stormwater management facilities. I previously had contacts with several individuals associated with the Settlers Mill Homeowner Association. One was Mr. Al Cummins who I had forwarded information to in advance of a meeting we had on July 30th 2002. The second was to Ms. Sandy Cooper who I forwarded information to in April 2003.

According to our records, there appears to be at least four (4) wet pond stormwater management facilities situated within Settlers Mill. They are as follows:

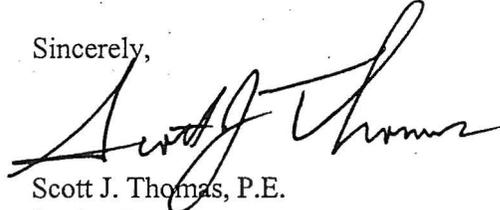
MC 029	Section 2	Wet Pond - ADJACENT USING FOR IRRIGATION
MC 030	Section 2	Wet Pond
MC 016	Section 3	Wet Pond
MC 007	Section 6	Wet Pond

(Note: I have attached a map showing the general location of these stormwater management facilities.)

Other information also attached includes: a watershed education brochure from our PRIDE program (www.protectedwithpride.org); a brochure entitled *Best Management Practices Education Program for Homeowners Associations*; landscaping tips for stormwater management BMP's; watershed awareness tips; a sample maintenance plan for wet/dry pond type stormwater management facilities; and several brochures related to liability, maintenance and watersheds. One of the brochures is a good informational handout entitled *A Guide for Maintaining and Operating BMP's*. This publication is distributed through our office in response to a cooperative effort from the Hampton Roads Regional Stormwater Management Committee and HR STORM, a regional stormwater education program offered by the Hampton Roads Planning District Commission.

Our division is always readily available to assist owners and HOA representatives with guidance related to stormwater management facilities and drainage. We sincerely look forward working with you in the future. In the meantime, we strongly encourage you to visit our PRIDE website at www.protectedwithpride.org to access useful information related to watershed protection, restoration and BMP maintenance. If you have any additional questions, call me at 757-253-6639.

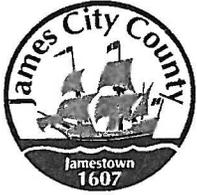
Sincerely,



Scott J. Thomas, P.E.
Senior Engineer
Environmental Division

Attachments
SJT/sjt

SWMProg\Education\HOAs\SettlersMill3.fc



DEVELOPMENT MANAGEMENT

101-E MOUNTS BAY ROAD, P.O. BOX 8784, WILLIAMSBURG, VIRGINIA 23187-8784
(757) 253-6671 Fax: (757) 253-6850 E-MAIL: devtman@james-city.va.us

CODE COMPLIANCE
(757) 253-6626
codecomp@james-city.va.us

ENVIRONMENTAL DIVISION
(757) 253-6670
environ@james-city.va.us

PLANNING
(757) 253-6685
planning@james-city.va.us

COUNTY ENGINEER
(757) 253-6678
INTEGRATED PEST MANAGEMENT
(757) 253-2620

July 24, 2002

Mr. Al Cummins
Settlers Mill HOA
105 Spring Branch
Williamsburg, Va. 23185

Re: Settlers Mill Subdivision
Stormwater Management Facilities

Dear Mr. Cummins:

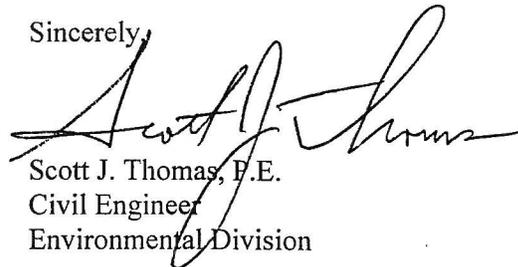
As discussed, I am forwarding you some "*first contact*" information for your community association to use relative to maintenance of stormwater management facilities. Based on our records, there are five (5) stormwater management facilities situated within Settlers Mill Sections 1 through 6.

Information as attached includes: a brochure entitled *Best Management Practices Education Program for Homeowners Associations*; landscaping tips for stormwater management BMP's; watershed awareness tips; a sample maintenance plan for wet/dry pond type stormwater management facilities; and several brochures related to liability, maintenance and watersheds. One of the brochures is a good informational handout entitled *A Guide for Maintaining and Operating BMP's*. This publication is distributed through our office in response to a cooperative effort from the Hampton Roads Regional Stormwater Management Committee and HR STORM, a regional stormwater education program offered by the Hampton Roads Planning District Commission.

I have also attached some maps showing the location of stormwater management facilities within Settlers Mill based on our County BMP Inventory/Inspection program. I look forward to our meeting as scheduled for Monday July 30th at 3:00 pm.

Our division is always readily available to assist owners and HOA representatives with guidance related to stormwater management facilities and drainage. We sincerely look forward working with you in the future. In the meantime, if you have any additional questions, call me at 757-253-6639.

Sincerely,



Scott J. Thomas, P.E.
Civil Engineer
Environmental Division

SWMProg\Education\HOAs\SettlersMill.fc

WATERSHED	MC	MAINTENANCE PLAN	No	CTRL STRUC DESC	RCP Riser
BMP ID NO	007	SITE AREA acre	26.13	CTRL STRUC SIZE inches	48
PLAN NO	S-19-95	LAND USE	SF Residential	OTLT BARRL DESC	RCP Barrel
TAX PARCEL	(47-01)(09-1A)	old BMP TYP	Wet Pond	OTLT BARRL SIZE inch	24
PIN NO	4711900001A	JCC BMP CODE			
CONSTRUCTION DATE	9/30/1996	POINT VALUE	9	EMERG SPILLWAY	Yes
PROJECT NAME	Settlers Mill Sec 6 (BMP # 5)			DESIGN HW ELEV	24.41
FACILITY LOCATION	Behind (north of) 309 Mill Stream Way			PERM POOL ELE	22.10
CITY-STATE	Williamsburg, Va. 23185	SVC DRAIN AREA acres	30.97	2-YR OUTFLOW cfs	20.68
CURRENT OWNER	Settlers Mill Association			10-YR OUTFLOW cfs	32.39
OWNER ADDRESS	PO Box 1295			REC DRAWING	Yes
OWNER ADDRESS 2		SERVICE AREA DESCR	Sec 6 & Hickory Sign Post Road		
CITY-STATE-ZIP CODE	Williamsburg, VA 23187	IMPERV AREA acres		CONSTR CERTI	No
OWNER PHONE		RECV STREAM	UT of Mill Ck-Lake Powell		
MAINT AGREEMENT	Yes	EXT DET-WQ-CTRL	Yes	LAST INSP DATE	1/10/2001
EMERG ACTION PLAN	No	WTR QUAL VOL acre-ft	1.4	INTERNAL RATING	4
		CHAN PROT CTRL	No	MISC/COMMENTS	
		CHAN PROT VOL acre-ft	0	BMP # 5. I/M Bk 796, Pg 124. San	
		SW/FLOOD CONTROL	Yes	Sewer thru dam.	
		GEOTECH REPORT	Yes		

Get Last BMP No

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WATERSHED	MC	MAINTENANCE PLAN	No	CTRL STRUC DESC	None
BMP ID NO	003	SITE AREA acre	14.4	CTRL STRUC SIZE inches	
PLAN NO	S-35-87	LAND USE	SF Residential	OTLT BARRL DESC	RCP Barrel
TAX PARCEL	(47-4)(9-1A)	old BMP TYP	Dry Pond	OTLT BARRL SIZE inch	18
PIN NO	4740900001A	JCC BMP CODE			
CONSTRUCTION DATE	1/1/1987	POINT VALUE		EMERG SPILLWAY	No
PROJECT NAME	Settlers Mill Basin at Jamestown Rd			DESIGN HW ELEV	
FACILITY LOCATION	Settlers Mill Entrance Jamestown Road			PERM POOL ELE	
CITY-STATE	Williamsburg, Va. 23185	SVC DRAIN AREA acres	18.15	2-YR OUTFLOW cfs	28.04
CURRENT OWNER	Settlers Mill Inc.			10-YR OUTFLOW cfs	37.37
OWNER ADDRESS	111 Old Colony Lane			REC DRAWING	No
OWNER ADDRESS 2		SERVICE AREA DESCRI	Settlers Mill & Jamestown Road		
CITY-STATE-ZIP CODE	Williamsburg, Va. 23185	IMPERV AREA acres		CONSTR CERTI	No
OWNER PHONE		RECV STREAM	UT of Mill Creek-Lake Pow		
MAINT AGREEMENT	No	EXT DET-WQ-CTRL	No	LAST INSP DATE	1/12/2001
EMERG ACTION PLAN	No	WTR QUAL VOL acre-ft	0	INTERNAL RATING	4
		CHAN PROT CTRL	No	MISC/COMMENTS	
		CHAN PROT VOL acre-ft	0	form Lakewood Sec 2. At Lakewood	
		SW/FLOOD CONTROL	Yes	Drive entrance.	
		GEOTECH REPORT	No		

[Get Last BMP No](#)

[Return to Menu](#)

WATERSHED MC
BMP ID NO 016
PLAN NO
TAX PARCEL (47-1)
PIN NO 4711900001A
CONSTRUCTION DATE
PROJECT NAME Settlers Mill Section 3
FACILITY LOCATION NE of 116 Holly Grove
CITY-STATE Williamsburg, VA
CURRENT OWNER Settlers Mill Association
OWNER ADDRESS PO Box 1295
OWNER ADDRESS 2
CITY-STATE-ZIP CODE Williamsburg, VA 23187
OWNER PHONE
MAINT AGREEMENT Yes
EMERG ACTION PLAN No

MAINTENANCE PLAN No
SITE AREA acre 0
LAND USE
old BMP TYP Wet Pond
JCC BMP CODE
POINT VALUE
SVC DRAIN AREA acres 0
SERVICE AREA DESCRI
IMPERV AREA acres
RECV STREAM
EXT DET-WQ-CTRL No
WTR QUAL VOL acre-ft 0
CHAN PROT CTRL No
CHAN PROT VOL acre-ft 0
SW/FLOOD CONTROL No
GEOTECH REPORT No

CTRL STRUC DESC Riser
CTRL STRUC SIZE Inches 48
OTLT BARRL DESC RCP
OTLT BARRL SIZE inch 30
EMERG SPILLWAY Yes
DESIGN HW ELEV 26.2
PERM POOL ELE 22.75
2-YR OUTFLOW cfs 12.40
10-YR OUTFLOW cfs 26.25
REC DRAWING Yes
CONSTR CERTI No
LAST INSP DATE 3/25/2002
INTERNAL RATING 2
MISC/COMMENTS

Get Last BMP No

Return to Menu

WATERSHED MC
BMP ID NO 030
PLAN NO
TAX PARCEL (47-4)(9-1A)
PIN NO 4740900001A
CONSTRUCTION DATE 10/1/1991
PROJECT NAME Settlers Mill Sec. 2, BMP 2 of 2
FACILITY LOCATION 120 Wood Pond Circle
CITY-STATE Williamsburg, VA
CURRENT OWNER Settlers Mill Association
OWNER ADDRESS PO Box 1295
OWNER ADDRESS 2
CITY-STATE-ZIP CODE Williamsburg, VA 23187
OWNER PHONE
MAINT AGREEMENT Yes
EMERG ACTION PLAN No

MAINTENANCE PLAN No
SITE AREA acre 0
LAND USE SFRES
old BMP TYP WET
JCC BMP CODE
POINT VALUE 8
SVC DRAIN AREA acres 13.6
SERVICE AREA DESCRI NONE
IMPERV AREA acres
RECV STREAM LAKE POWELL
EXT DET-WQ-CTRL No
WTR QUAL VOL acre-ft 0.45
CHAN PROT CTRL No
CHAN PROT VOL acre-ft 0.65
SW/FLOOD CONTROL No
GEOTECH REPORT No

CTRL STRUC DESC
CTRL STRUC SIZE inches
OTLT BARRL DESC RCP
OTLT BARRL SIZE inch 15
EMERG SPILLWAY Yes
DESIGN HW ELEV 32.19
PERM POOL ELE 28.5
2-YR OUTFLOW cfs 33.33
10-YR OUTFLOW cfs 43.00
REC DRAWING No
CONSTR CERTI No
LAST INSP DATE 1/11/2001
INTERNAL RATING 3
MISC/COMMENTS

Get Last BMP No

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WATERSHED MC
BMP ID NO 029
PLAN NO
TAX PARCEL (47-4)(9-14)
PIN NO 47409000014
CONSTRUCTION DATE 10/1/1991
PROJECT NAME Settlers Mill Sec. 2, BMP 1 of 2
FACILITY LOCATION 120 Wood Pond Circle
CITY-STATE Williamsburg, VA
CURRENT OWNER Settlers Mill Association
OWNER ADDRESS PO Box 1295
OWNER ADDRESS 2
CITY-STATE-ZIP CODE Williamsburg, VA 23187
OWNER PHONE
MAINT AGREEMENT Yes
EMERG ACTION PLAN No

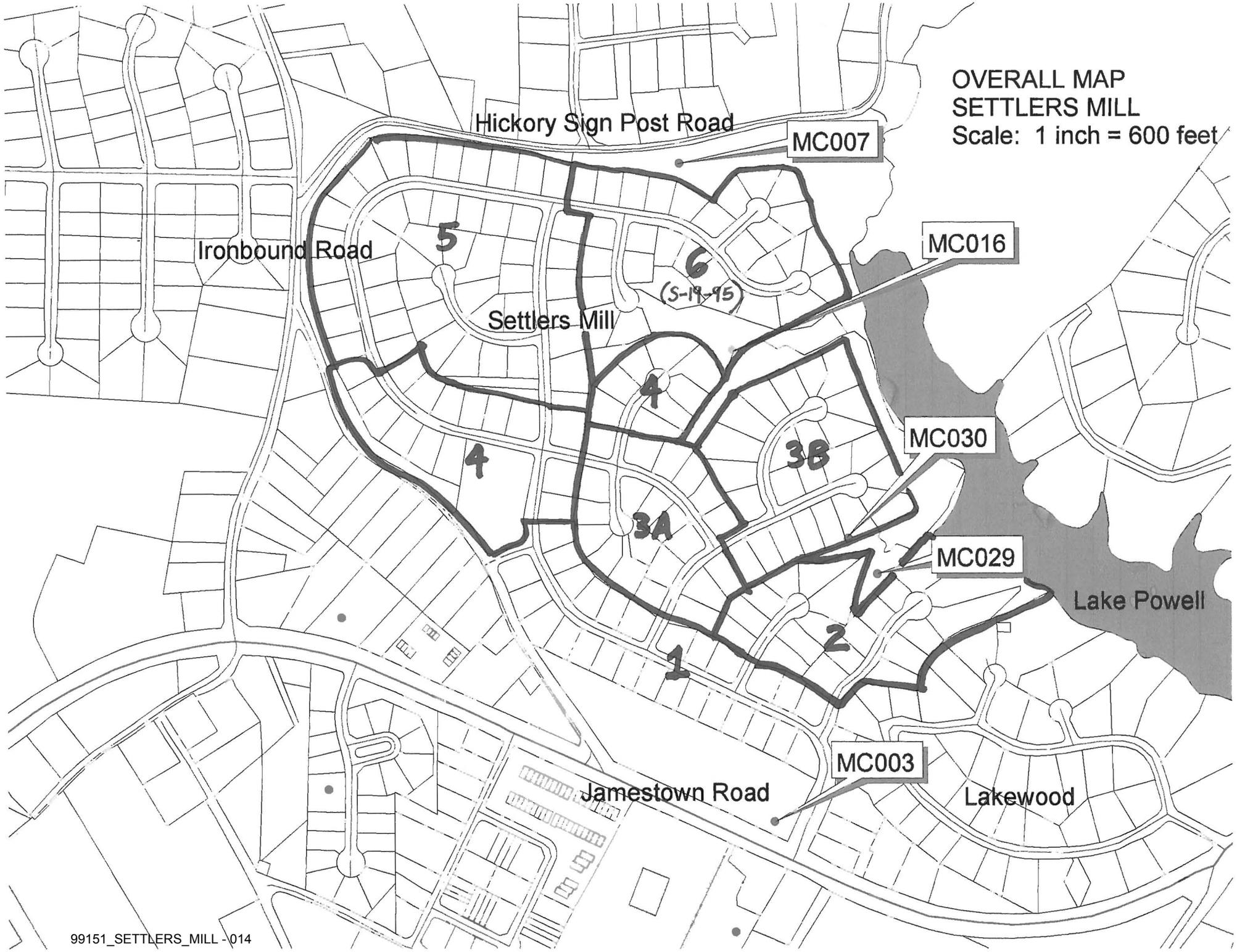
MAINTENANCE PLAN No
SITE AREA acre 0
LAND USE SFRES
old BMP TYP WET
JCC BMP CODE
POINT VALUE 9
SVC DRAIN AREA acres 6.36
SERVICE AREA DESCRI NONE
IMPERV AREA acres
RECV STREAM LAKE POWELL
EXT DET-WQ-CTRL No
WTR QUAL VOL acre-ft 0.34
CHAN PROT CTRL No
CHAN PROT VOL acre-ft 0.41
SW/FLOOD CONTROL No
GEOTECH REPORT No

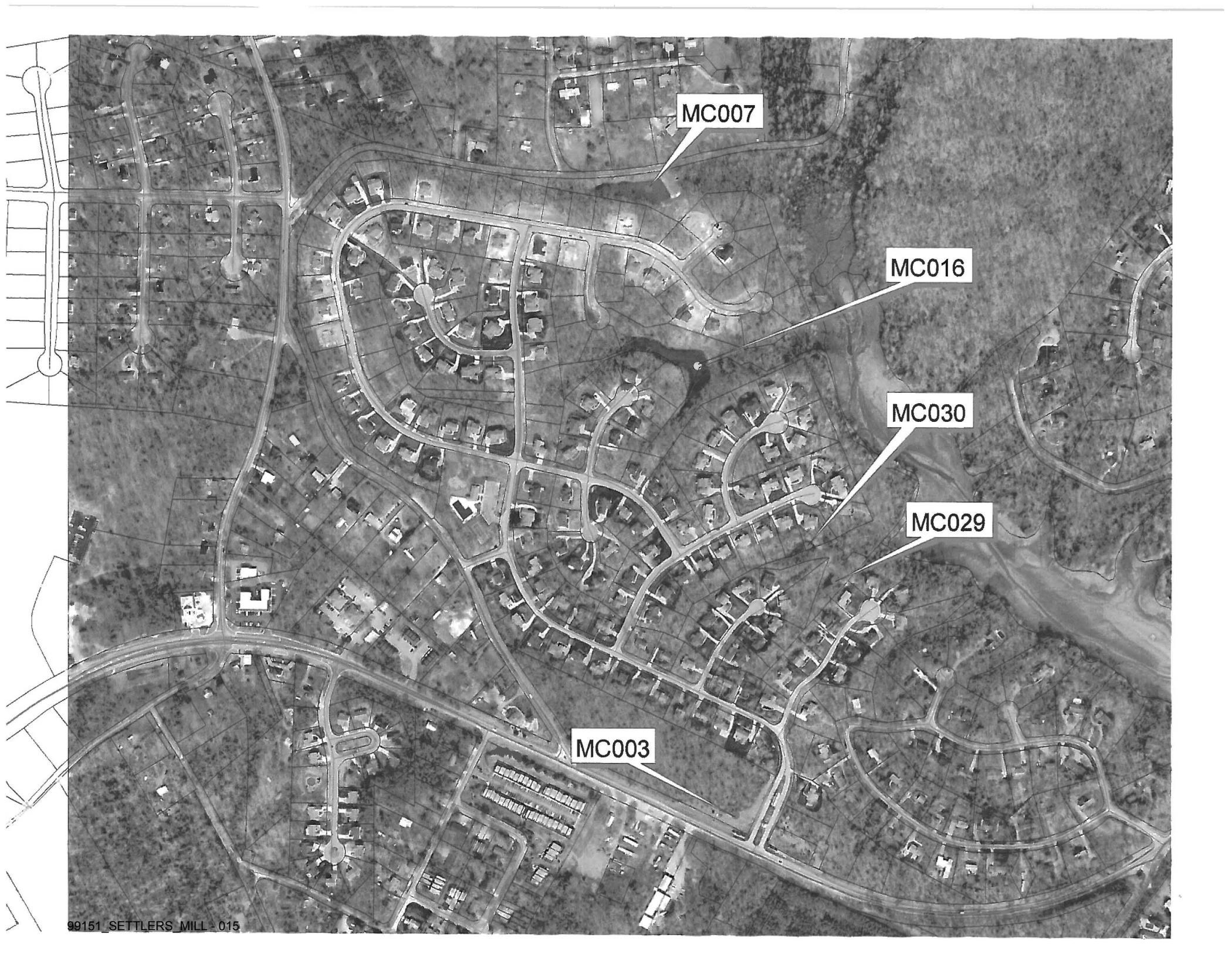
CTRL STRUC DESC
CTRL STRUC SIZE inches
OTLT BARRL DESC RCP
OTLT BARRL SIZE inch 12
EMERG SPILLWAY Yes
DESIGN HW ELEV
PERM POOL ELE 27.75
2-YR OUTFLOW cfs 17.50
10-YR OUTFLOW cfs 22.50
REC DRAWING No
CONSTR CERTI No
LAST INSP DATE 1/11/2001
INTERNAL RATING 3
MISC/COMMENTS

[Get Last BMP No](#)

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OVERALL MAP
SETTLERS MILL
Scale: 1 inch = 600 feet





MC007

MC016

MC030

MC029

MC003



MC007

MC016

MC030

MC029

Al Cummins
105 Spring Branch
259-0739



- Sec 6 - mc 007
- check Erosion D/S
 - check sinkhole.
 - copy

Level 2 - HOA (MAINT. PLAN)

- Sept. First Thurs 6:00 @ Custom Builder
- Oct. First Thurs.

Settlers Mill

Weedtrine D



Quality
Products
for Water
Quality

- [Home](#)
- [Up](#)
- [MSDS \(HTML\)](#)
- [MSDS \(pdf\)](#)
- [Spec. Label \(HTML\)](#)
- [Spec. Label \(pdf\)](#)

WEEDTRINE®-D FACT SHEET TECHNICAL SERVICE REPORT NO. 143-184

E.P.A. Registration No.
8959-9

WHAT IS WEEDTRINE®-D?

Weedtrine®-D is a broad spectrum liquid aquatic herbicide for use in and around still lakes, ponds, ditches, non-crop or non-planted areas. It contains 8.53% active diquat dibromide (6,7 dihydrodipyrido [1,2-a:2',1'-c] pyrazinediium dibromide).

HOW DOES WEEDTRINE®-D WORK?

Weedtrine®-D acts as a contact killer in plants by disrupting cellular membranes.

Cost
\$43.15 /gallon
(Case of 4 gal)
\$168.00 /gal.
Single

1-800-661-740
CYGNET
(Distributor,
ASK for
Jason or Eric
Can UPS ship

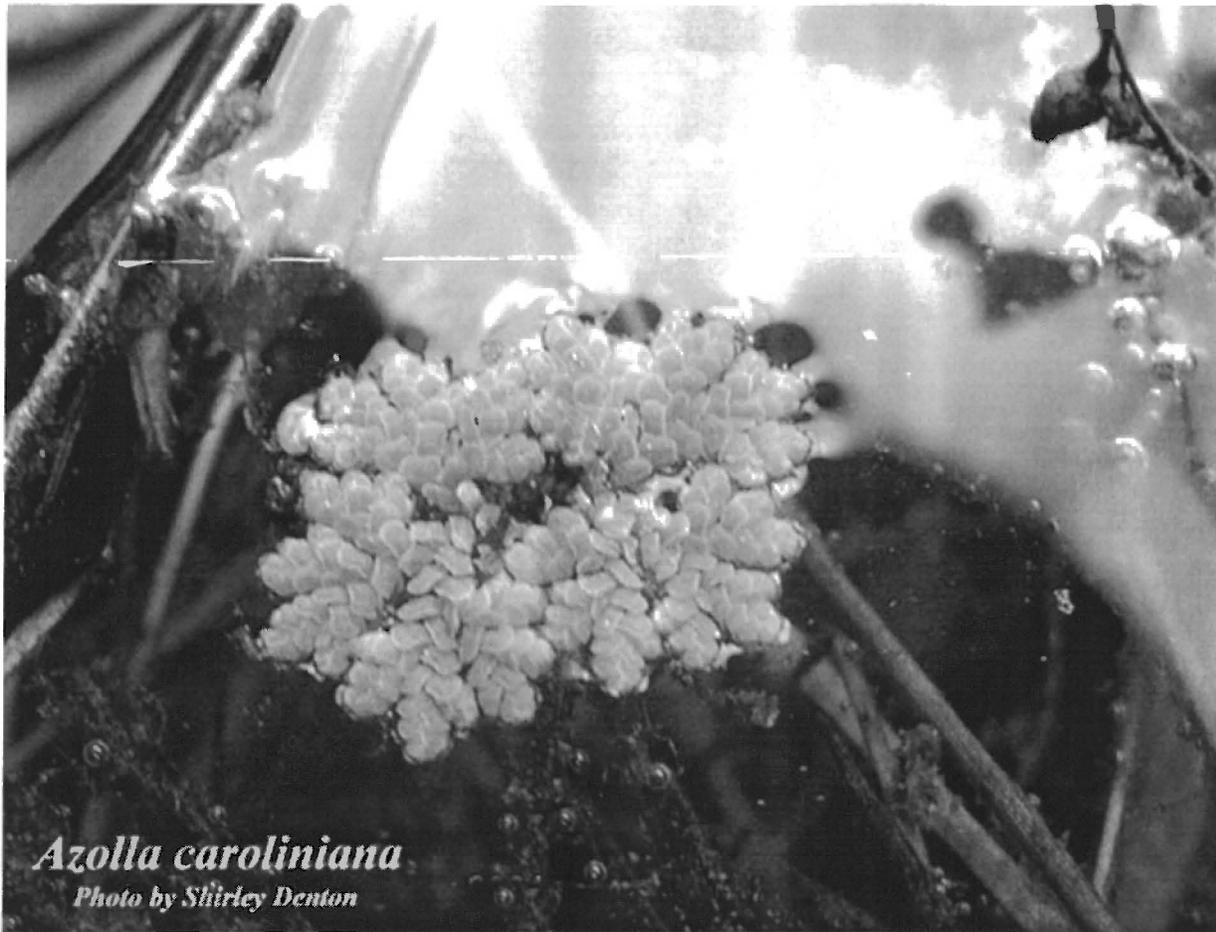
43.15
4
172.60

Loss of these membranes allows the active ingredient to move into the plant and "short circuit" photosynthesis.

ADVANTAGES OF WEEDTRINE[®]-D:

- controls a broad range of aquatic plants including submerges, floating and emergent weeds and certain filamentous algae.
- is specifically formulated for homeowner use for spot treatment of small weed patches or backyard ponds.
- kills plants quickly through rapid absorption.
- is easy to apply.
- has a low toxicity to fish and other aquatic organisms.
- is compatible in tank mixes with Cutrine[®]-Plus algicide to increase effectiveness.
- can be used in non-crop or non-planted areas such as around buildings, fence lines, driveways, patios, etc.

Close





Shirley Denton, February 2001

© Shirley Denton

