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WHEN IT RAINS IT DRAINS

Village of Ardsley
Phase II Stormwater Management
- *Federally mandated by EPA*
- *Administered by NYSDEC*

Aim: To restore all waters of the US to swimmable and fishable quality

Stormwater Management Officer: Larry Tonesso
Stormwater Management Assistant: Lorraine Kuhn

What is Stormwater ?

rain or melting snow that doesn't soak into the ground but runs off into waterways

Why is it a problem ?

as it flows, runoff collects pollutants which degrade lakes, rivers and wetlands

Item 1:
AHS AP Env Sci Presentation

What's being done ?

1987 – Clean Water Act
1990 – Phase I NPDES
>100,000 pop, >5 acres
1999 – Phase II SPDES
small municipalities, >1 acre
2003 - Implementation

Municipalities have:

Municipal Separate Storm Sewer Systems

MS4

Each MS4 has 6 tasks called:

Minimum Measurable Goals

(5 year time table)

-**MM1**:*Public Outreach & Education*
-**MM2**: *Public Involvement & Participation*
-**MM3**: *Illicit Discharge Detection & Elimination*
-**MM4**: *Construction Site Stormwater Runoff Control*
-**MM5**: *Post-Construction Stormwater Management*
-**MM6**: *Pollution Prevention & Good Housekeeping for Municipal Operations*

MM1: Public Outreach & Education:

CATV, Village website, Scout meetings, Garden Club meetings, Village events

MM2: Public Involvement & Participation:

Drain stenciling, Rain garden, Outfall mapping, Clean-ups, Outfall testing

MM3: Illicit Discharge & Detection:

Map all outfalls and conveyances, IDDE Local Law #8 (2005), Testing, Enforcement

MM4: Construction Site Stormwater Runoff Control:

SWPPP (SW Pollution Prevention Plan), Control runoff during construction, ESC Local Law #4 (2005, also MM5)

MM5: Post-construction Stormwater Management:

SWPPP, Permanent measures to control runoff in developed property

MM6: Pollution Prevention/GoodHousekeeping for Municipal Operations:

DPW, Road salting, garbage and recycling, storm drain maintenance

MM1 & MM2: How can you help?

Outfall mapping: nearly complete

Clean-ups: "Pocket parks", mouth of Bramble Brook, cooperate with SMRC

Outfall testing: program just starting, rudimentary protocol, looking for "hot spots" which would be reassessed by certified tests if necessary

Storm Drain & Catch Basin Inventory

Next task after outfall mapping

Combine with marking project

Begin with southwest Ardsley

Include GPS data

Contact:

Lorraine Kuhn, SW Management Assistant

stormwater@ardsleyvillage.com

More information about SW:

cfpub.epa.gov/npdes/stormwater/menuofbmps/menu.cfm (EPA)

dec.state.ny.us/website/dow/mainpage.htm (NYSDEC)

Science 313, 1067-90 (2006).

Lawn & Garden:

-Limit use of pesticides & fertilizer

-Mulch & vegetate bare spots

-Bag your leaves

Conserve water:

-Drainage to dry wells

-Downspouts away from paving

-Cisterns to collect rainwater

-Wash cars over grassy area

Waste management:

-Dispose of paint, etc. at Clean-up days

-Recycle, don't litter

-Use "green" products

-Flush or compost pet waste

Automotive businesses:

-Don't drain car wash to storm sewer

-Dry spills of fluids

-Recycle oil

All businesses:

-Make sure floor drains are not connected to storm sewer

-Sweep up sidewalks and parking lots instead of washing

-Sponsor civic clean-up efforts

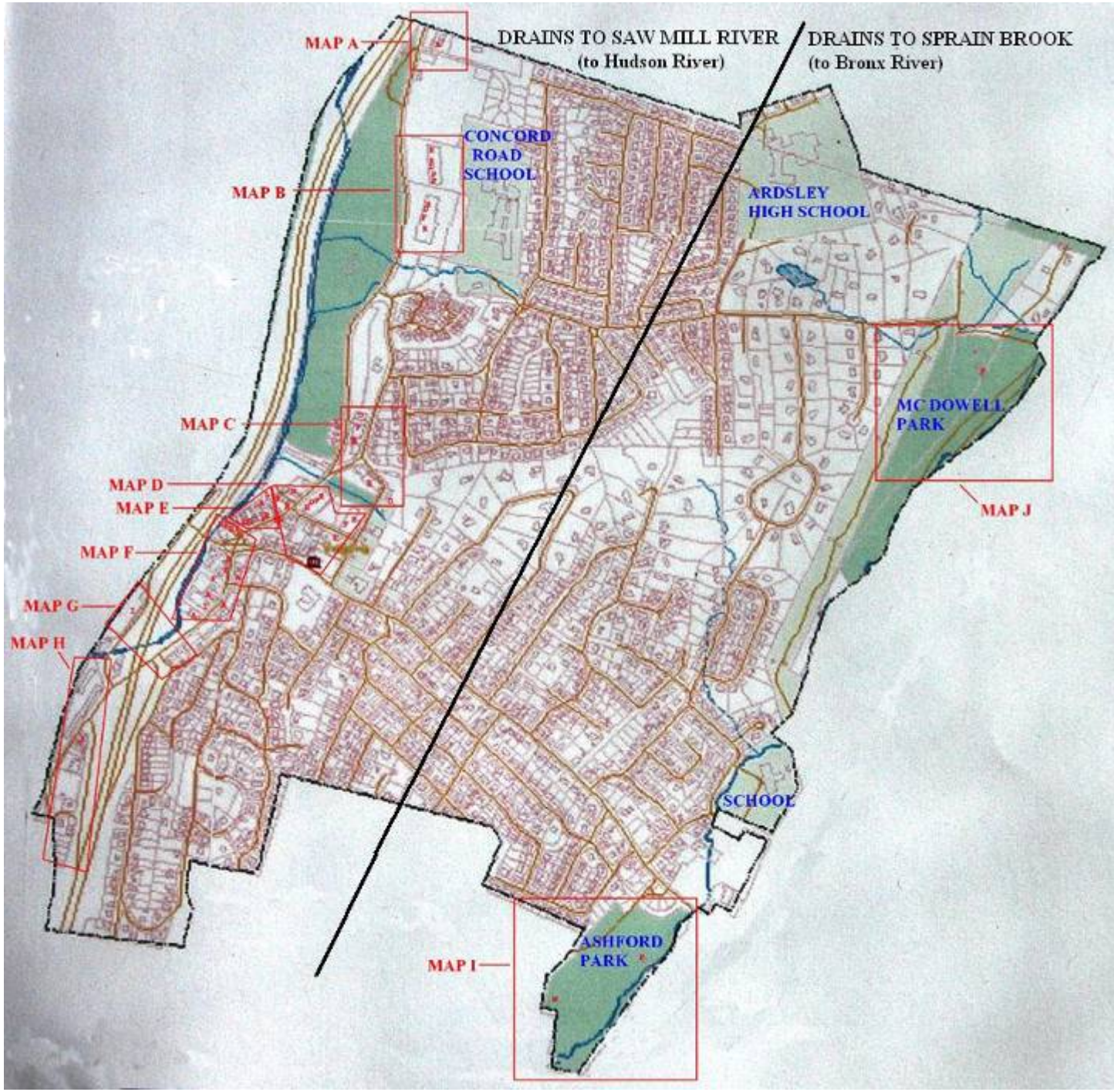
Item 2: Village Site Assessment

Please see Maps A – J for details as follows:

Potential "Hot Spots"
A: Automotive
I: Industrial
D: Dry Cleaners
L: Laundry
P: Photo Store or Studio
F: Food Store
R: Restaurant
W: Waste Storage Site

Other Facilities and Businesses
O: Office
M: Medical Office or Medical Facility
S: Retail Store, Bank, Pharmacy, Hair or Nail Salon
G: Government Building

Remainder of Village is entirely residential homes
(Building footprints and tax parcels shown in grey outline.)

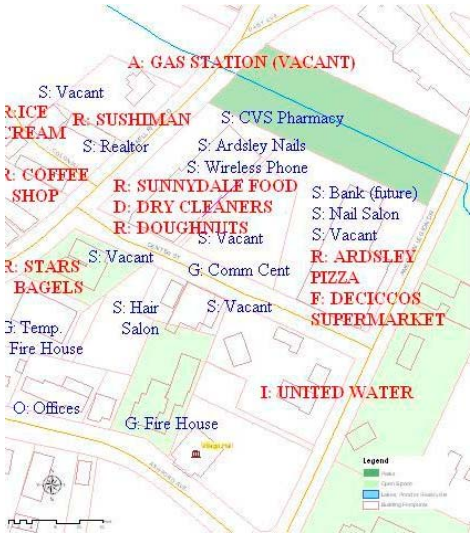


MAP A

MAP B

MAP C

MAP D



MAP E

MAP F

MAP G

MAP H

Item 2:
Village Site Assessment

MAP I **MAP J**

Item 3: Literature Distribution Log – number of copies taken (3/10/2006 – 3/9/2007)

LOCATION	----------TITLE----------									
	"After the Storm" (EPA 833 B03002)	"Make Your Home the Solution to Stormwater Pollution" (EPA 833B03003)	"Water Efficient Landscaping" (EPA 832F02002)	"Attention: Site Developers and Construction Site Owners" (NYSDEC)	"When It Drains" bookmark (Hudson River Estuary)	"Step by Step" LI Sound Study EPA	"Where Does All the Dirty Water Go?" EPA 832-F-03-008	"Clean Water" USDA/ NYS DEC	"Critical Path to Compliance" NYSDEC June 2006 (now on file at this location)	"Municipal Pollution Prevention and Good Housekeeping Program Assistance" NYSDEC (now on file at this location)
Village Hall		15				15				
Library		12	4			15			1	
Community Center	10	9	4			8				
Building Inspector				5					1	
Dept Public Works									1	1
AHS AP Env Sci class						15				
"Plant-a-Flower" Day					6		5			
"Ardsley Day" event						2				

Item 4a: Saw Mill River Coalition Enterprise Article

Municipalities join to protect Saw Mill River watershed

By Judith Doolin Spikes

REGION — Hastings on Tuesday night became the tenth signatory to a projected 12-community intermunicipal agreement developed by the Saw Mill River Coalition (SMRC), a program of Groundwork Yonkers, to work cooperatively to improve the river and its watershed.

Hastings joins Ardsley, Dobbs Ferry, Elmsford, Irvington, Mount Pleasant, New Castle, Tarrytown, and Yonkers, which signed on beginning in the summer of 2005. Expected to sign soon are Sleepy Hollow and Greenburgh. "Why they haven't done so before is strictly bureaucratic — they've had other priorities on their agendas," Rick Magder, executive director of Groundwork, said last week. "We understand there is no philosophical objection."

The agreement has the strong support of the state Department of Environmental Conservation (DEC), which has identified intermunicipal cooperation as a critical component of watershed health, said Scott Cuppett of the DEC's Hudson River Estuary Program.

The River RATs (Remedial Action Team) and Free-a-Tree, also sponsored by the coalition, are "volunteers on the ground making a difference," Magder explained, whereas the municipal agreement brings local governments together to protect the river. "It's a pretty big deal to have everyone throughout the watershed agree to work together — it gives the river a much better chance. A lot of the towns don't have the staff to protect the river. Working together can get them the expertise they don't have individually."

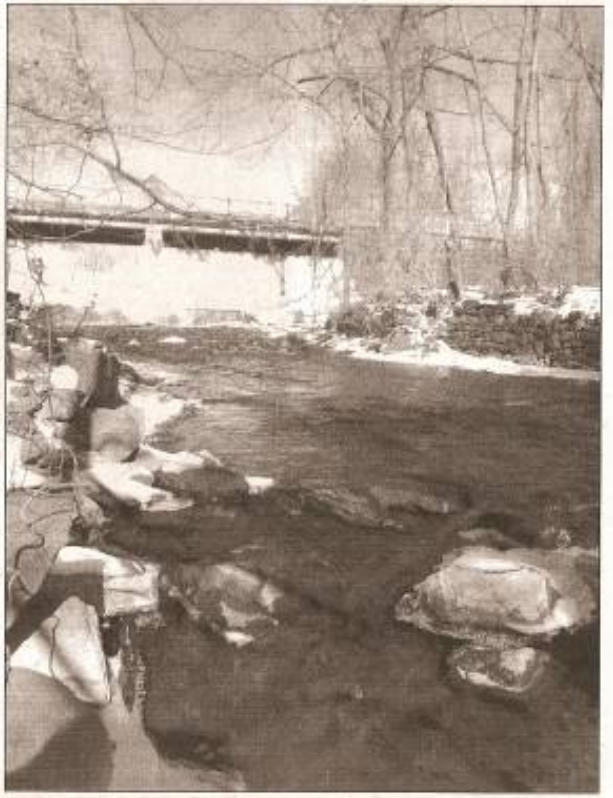
The agreement focuses on mutual benefits ranging from enhanced recreation to pollution and flood prevention, Magder said. "One focus will be on mapping wetlands and another on property use, so we all know where they are and can understand the watershed better," he said. Representatives of the municipalities meet periodically to talk about what they are doing, so that if one town is working on flood control, towns downstream will know about it, he said. The coalition also brings in experts to talk about technical matters of common concern.

As a specific example of intermunicipal cooperation shepherded by the coalition, Magder mentioned development of the Akzo Nobel site in Dobbs Ferry. "We are trying to work with them to come up with a design that meets their needs and protects the river, too," he said, referring to the portion of the property that lies east of the parkway. SMRC coordinator Anne-Marie Mitroff (a resident of Dobbs Ferry) adds that the coalition may also work with Cornell University to recommend storm water improvements on the Akzo site.

"It's a growing relationship," Mitroff said of the intermunicipal agreements. She has recently applied for a grant to identify wetlands and select criteria for those that most need to be protected, in order to help communities formulate guidelines for development.

"For example," Mitroff explained, "where we already have a lot of flood-

CONTINUED ON PAGE 20



MIKE DISCIULLO/RIVERTOWNS ENTERPRISE

The river tumbles over the falls at V.E. Macy Park.

Saw Mill

CONTINUED FROM PAGE 5

ing — as in Hastings and Pleasantville — we want to really take care of flooding above those towns, be proactive and look at land use to understand the impact of development."

SMRC is currently working with students from Manhattan College in Riverdale who sample the river at 11 water-quality stations from Chappaqua to Yonkers. Soon, Mitroff said, they will begin matching that data with a land survey by affiliated students from Saunders Trades and Technical High School (Yonkers) to identify sites where poor water quality has been found, giving municipal boards a better idea of what needs to be done.

"Granting agencies love having a lot of different municipalities working on a project," Mitroff said. "We'll ask the municipalities for an in-kind match — that is never a problem — or maybe even cash for a specific project." SMRC already has some money for software for the mapping project, and it will also work with the county. Eventually, the data SMRC generates will be overlaid on the county's GIS mapping.

Lorraine Kuhn, who coordinates compliance with the New York State storm water management initiative for the Village of Ardsley, is the SMRC point person for that village. She explains that the basic aim of the initiative, which stems from the Federal Clean Water Act, is to clean up all waters in the U.S. "to swimmable and fishable quality."

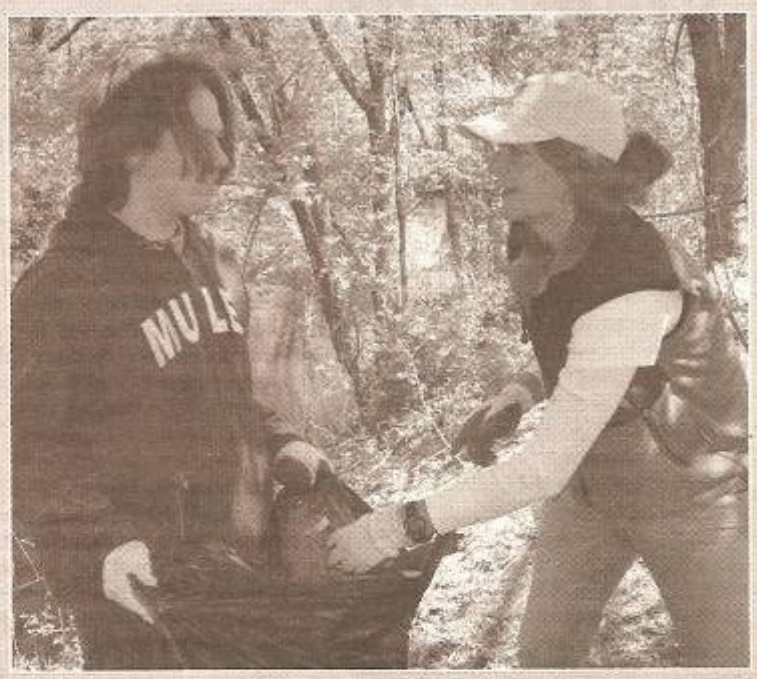
The six goals of the initiative, Kuhn enumerated, are public outreach and education; public involvement and participation; illicit discharge detection and elimination; pre-construction run-off management; post-construction run-off management (permanent practices to manage run-off); and "good housekeeping" while salting roads, patching asphalt, collecting garbage and the like — all of which are consonant with SMRC aims.

Ardsley has been mapping "outfalls" — pipes that discharge into the Saw Mill River or Sprain Brook — and will coordinate with the coalition on mapping wetlands, Kuhn said. SMRC has also been a big help with the first two goals of the storm water initiative, she added. "We all have to get the word out, and they've helped us label storm drains with the Boy Scouts." She praised Mitroff for doing "a great job for storm water in Ardsley."

Irvington's only involvement so far has been the signing of the agreement, clerk/treasurer Lawrence Schopfer said Tuesday.

"It's hard to get municipalities to agree on common stuff, especially when it comes to financial commitments," Kuhn summed up.

Item 4b: "Great River Sweep"
Enterprise Article

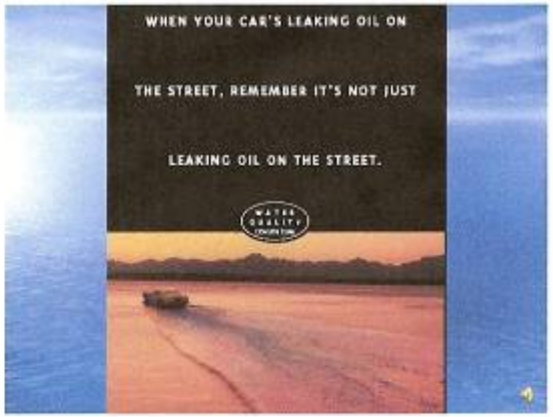


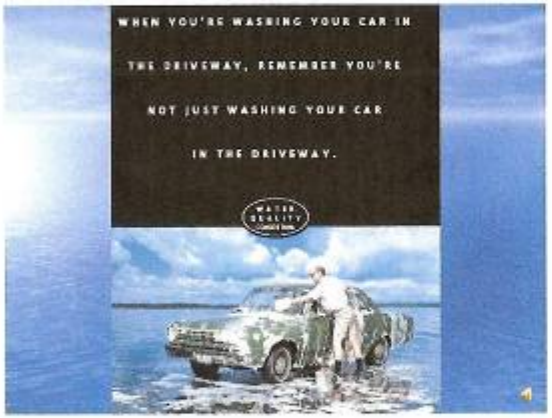
ANNE MARIE LEONE/RIVERTOWNS ENTERPRISE

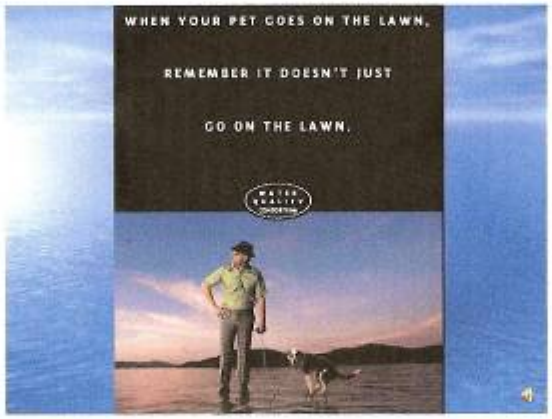
Sweeping the Saw Mill

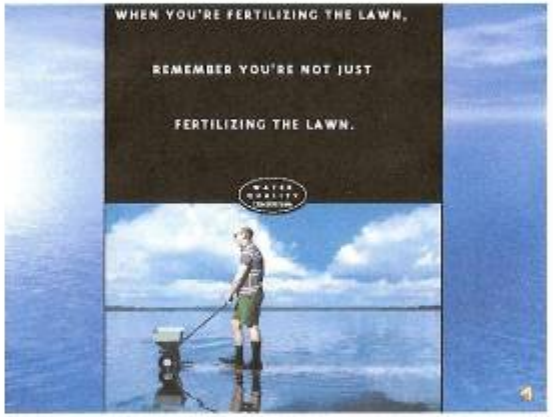
Ardsley High School senior Karoline Schwartz (right) led a clean-up along the banks of the Saw Mill River on Sunday, April 30, as part of the Great River Sweep, a series of clean-ups organized by volunteers along the Hudson River and its tributaries between April 22-30. Schwartz's effort took place at the intersection of Saw Mill River Road and Fuller Avenue. She was joined by her parents, Melanie Roher and Steve Schwartz, and by fellow students Matthew Fass (above) and Chloe Parris.

Item 5: Stormwater "Commercial" (airs on Cable Access TV with voiceover narration)









Item 6: Village of Ardsley Phase II Stormwater Management Raingarden Project

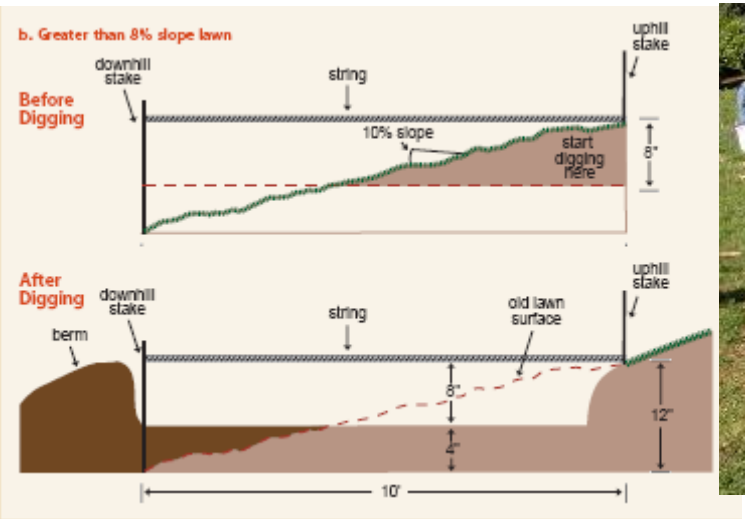
The EPA Stormwater Management Program aims to clean up the waters of the US. We can all help by trying to keep more water on our property so it gets a chance to sink back into the ground instead of washing over the street and into the storm drain. One way to collect runoff is with a raingarden.

Raingardens are level planting beds, about 4 to 8 inches deep, which collect runoff. They should be at least 10 feet from the foundation of the house, preferably on a shallow slope. You can direct your downspouts to drain into them. There is a terrific manual with details at http://www.dnr.state.wi.us/org/water/wm/dsfm/shore/documents/rgmanual.pdf

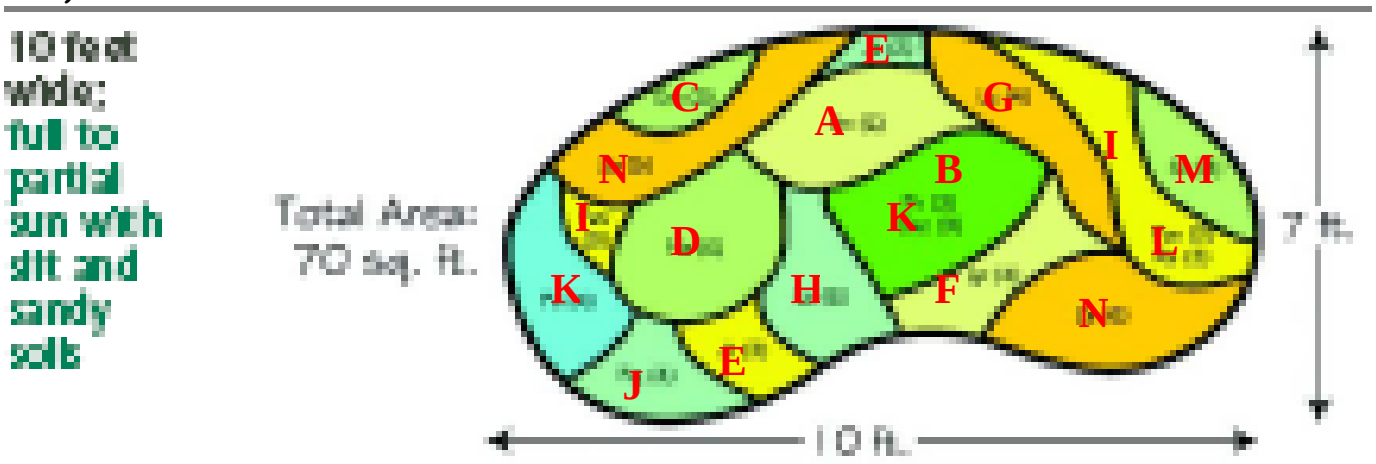
We installed a small (10 ft width X 7 ft length) demonstration raingarden at AMS. It is located on MacCormack Drive on the west side of the entrance.

(See picture at right)

We excavated the planting bed to a depth of 8 inches and leveled it as needed with additional soil. Excavated soil was used to create a berm at the lower edge (east side in our garden) and grass seed was planted on the berm to stabilize it. (See diagram below)



The bed is an irregular shape filled with a variety of perennial plants (except Verbena which is an annual). (See diagram below)



A Aster
B Bottlebrush sedge
C Joe Pye weed
D Helenium
E Viola
F Gayfeather
G Cardinal flower
H Blue Lobelia
I Verbena
J Phlox
K Lavender
L Echinacea
M Solidago
N Daisies

Item 6: Rain Garden

Village of Ardsley Phase II Stormwater Management thanks Cub Scout Pack #3 and the Hobbs, Leib-Geiger, Lyons, Palij, Shlom and Yee families for their hard work and extra effort in installing our Village Rain Garden.

Item 6: Rain Garden

Village of Ardsley #NYR20A316

ARDSLEY STORMWATER MANAGEMENT
ARDSLEY PARKS & RECREATION DEPARTMENT

Plant-a-Flower Day
at
Ashford Park

SATURDAY
MAY 20th
8:30 AM – 11:30 AM
ASHFORD PARK at the GAZEBO
What to bring: red, white or blue flowering annuals & shovels – clippers – gardening gloves

Item 8: Spills and Illegal Dumping

DATE	LOCATION	INCIDENT	REPORT
3/22/2006	Concord Rd School stream	Dumping trash	SW “Hotline”/ Residents and Scouts
4/19	35 Park Avenue	Dumping landscaping debris on private property	Ardsley Police Dept. AP-000983-06
4/30	Saw Mill River Rd at Thruway exit	Dumping garbage bags	AP-001078-06
5/9	Elm St / Ardsley DPW	Trash, storage tank maintenance, salt stockpile cover	NYSDEC citation
5/12	555 Saw Mill River Rd	Abandoned automobile	AP-001192-06
5/24	4 Euclid Avenue	Dog feces left on private property	AP-001-290-06
7/13	Copper Pot / 20 Center Street	Paint in storm drain	Report to SW Assistant / SMO
7/16	75 Lincoln Avenue	Dumping garbage on private property	AP-001816-06
8/24	1-10 Colonial Ct / Village Green	Dumping garbage bags on commercial property	AP-002187-06
10/1	9 Powderhorn Rd	Garbage dumped on private lawn	AP-002537-06
10/11	Revolutionary Rd / Water Wheel	Abandoned vehicle	AP-002628-06
12/18	Elm St / Ardsley DPW	Abandoned vehicle	AP-003238-06
1/11/2007	Bridge St parking lot	Dumping garbage	APD

Item 9a: Outfall Testing Kit

GPS: etrex GPS unit (Garmin Industries, Olathe, KS)

Camera: Nikon CoolPix 5700

Air Temperature: Combination thermometer/timer/watch/compass (Sportline pocket model, Sports Authority, White Plains, NY)

Flow Measure:
Method #1: 500 ml graduated measuring cup, Timer (Sportline)

Method #2: Ping pong balls (orange, Sports Authority), Timer (Sportline), Tape measure (25 feet, flexible metal reel type)

Water Temperature: Liquid stick-type in metal casing (0^oF – 220^oF, Stillwell Corporation, Elmsford, NY)

Water Sample Collection (for on-site testing): Measuring cup, Latex gloves

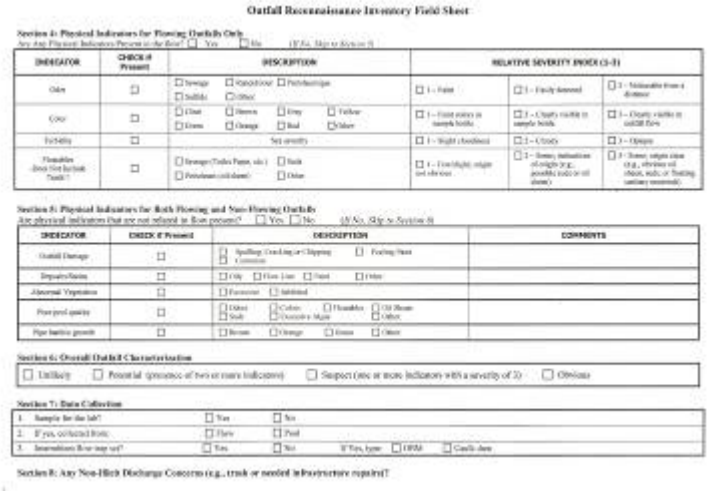
pH: pH test kit (pH 6.2 – 8.6, Red Sea Co, Houston, TX)

Ammonia: Ammonia test strip (0 – 6 ppm, AP Inc, Chalfont, PA)

OBM (Optical Brightener Method): Unbleached muslin (11”L X 4”W folded to 3”L X 2”W pad, Hartsdale Fabrics, Hartsdale, NY), Black PVC plastic grid sheets (1/2” X 1/2" square gauge, 8”L X 3”W folded in half to 4” X 3” holder for pad), 20 lb. test monofilament (for tying up plastic grid holder and affixing to support in stream flow), scissors (to cut monofilament), Plastic bags (6”W X 4”L, Ziplock, to store pad after removing from site and after drying), Desk lamp with 40 Watt “black light” bulb (Spencer Gifts, White Plains, NY)

Storage of Supplies: Canvass, multi-pocket tool utility bag

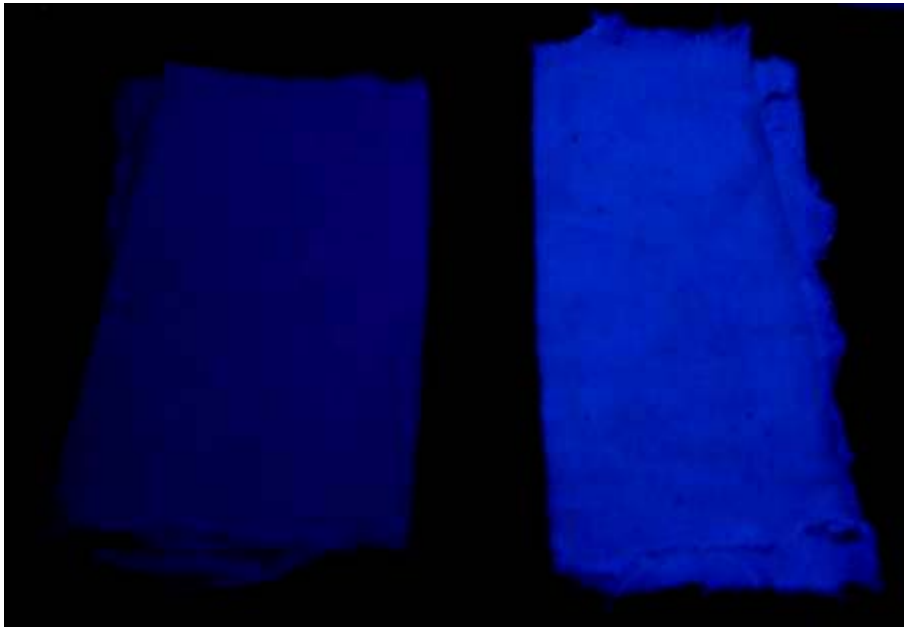
ORI Sheets: provided by NYSDEC



Item 9b: OBM Test : Control Study

A **B**

VIS



A **B**

UV

A : Unbleached muslin soaked in tap water for one hour
B : Unbleached muslin soaked in “Tide” detergent (diluted 1/10 in tap water) for one hour

Photographed under incandescent (VIS) or ultraviolet “black” light (UV) with Nikon CoolPix 5700(no filter).

Item 9c: Outfall Test: OF159 01102007

OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data dry clear weather

Subwatershed: Saw Mill River		Outfall ID: OF 159 (Mary Kirk)	
Today's date: 1/10/2007		Time (Military): 3 PM	
Investigators: KUHN		Form completed by: KUHN [signature]	
Temperature (°F): 45 °F	Rainfall (in.): Last 24 hours: 0	Last 48 hours: 1.14" (1/8/2007)	
Latitude: N 41°01.005'	Longitude: W 073°50.679'	GPS Unit: eTrex / Garmin	GPS LMK #:
Camera: Nikon Cool Pix 5700 / Lens = [illegible]		Photo #s: attached to report	

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☐ Ultra-Urban Residential
- ☑ Suburban Residential
- ☑ Commercial (Retail)
- ☑ Open Space
- ☐ Institutional
- Other: ______
- Known Industries: [illegible], Dry Cleaners

Notes (e.g., origin of outfall, if known): [illegible]

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
☐ Closed Pipe	☐ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Other: ____	☐ Circular ☐ Elliptical ☐ Box ☐ Other: ____	☐ Single ☐ Double ☐ Triple ☐ Other: ____	Diameter/Dimensions:	In Water: ☐ No ☐ Partially ☐ Fully. With Sediment: ☐ No ☐ Partially ☐ Fully
☑ Open drainage	☐ Concrete ☑ Earthen ☐ rip-rap ☐ Other: ____	☑ Trapezoid ☐ Parabolic ☐ Other: ____		Depth: 2' Top Width: 5' Bottom Width: 7.5"	
☑ In-Stream	(applicable when collecting samples)				
Flow Present?	☑ Yes ☐ No	*If No, Skip to Section 5*			
Flow Description (If present)	☐ Trickle ☑ Moderate ☐ Substantial				

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		**RESULT**	**UNIT**	**EQUIPMENT**
☐ Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
☑ Flow #2 (Ave = 8.40")	Flow depth	5"	In	Tape measure
	Flow width	2' 9"	Ft, In	Tape measure
	Measured length	3' 0"	Ft, In	Tape measure
	Time of travel	[illegible] 8.06 / 9.12 / 8.02	S	Stop watch
Temperature		41 °F	°F	Thermometer
pH		7.3	pH Units	Test strip/Probe
Ammonia		0	mg/L	Test strip

Ave travel time = 8.40" Flow volume = 25.71 gal
Flow rate = 183.67 gal/min

Outfall Reconnaissance Inventory Field Sheet

Section 4: Physical Indicators for Flowing Outfalls Only
Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Petroleum/gas ☐ Sulfide ☐ Other	☐ 1 – Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color	☐	☑ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange ☐ Red ☐ Other:	☐ 1 – Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1 – Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage (Toilet Paper, etc.) ☐ Suds ☐ Petroleum (oil sheen) ☐ Other:	☐ 1 – Few/slight; origin not obvious	☐ 2 – Some; indications of origin (e.g., possible suds or oil sheen)	☐ 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls
Are physical indicators that are not related to flow present? ☐ Yes ☑ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe benthic growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	

Section 6: Overall Outfall Characterization

☑ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

Section 7: Data Collection

1.	Sample for the lab?	☐ Yes	☑ No	
2.	If yes, collected from:	☐ Flow	☐ Pool	
3.	Intermittent flow trap set?	☑ Yes	☐ No	If Yes, type: ☑ OBM ☐ Caulk dam Time = 3 PM

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Trash

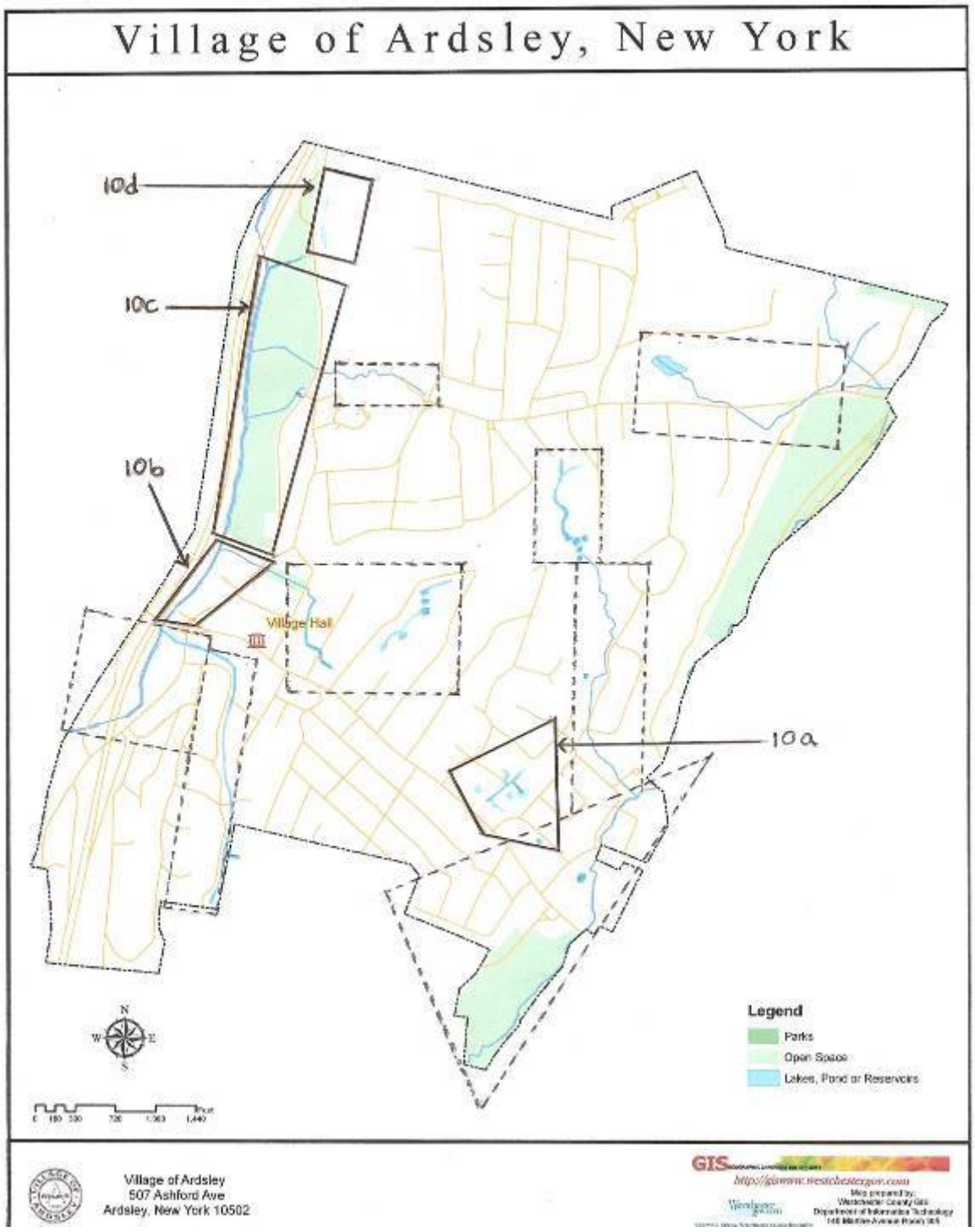
Collected = 1/12/2007 2PM
OBM test = negative

OBM pad in outfall

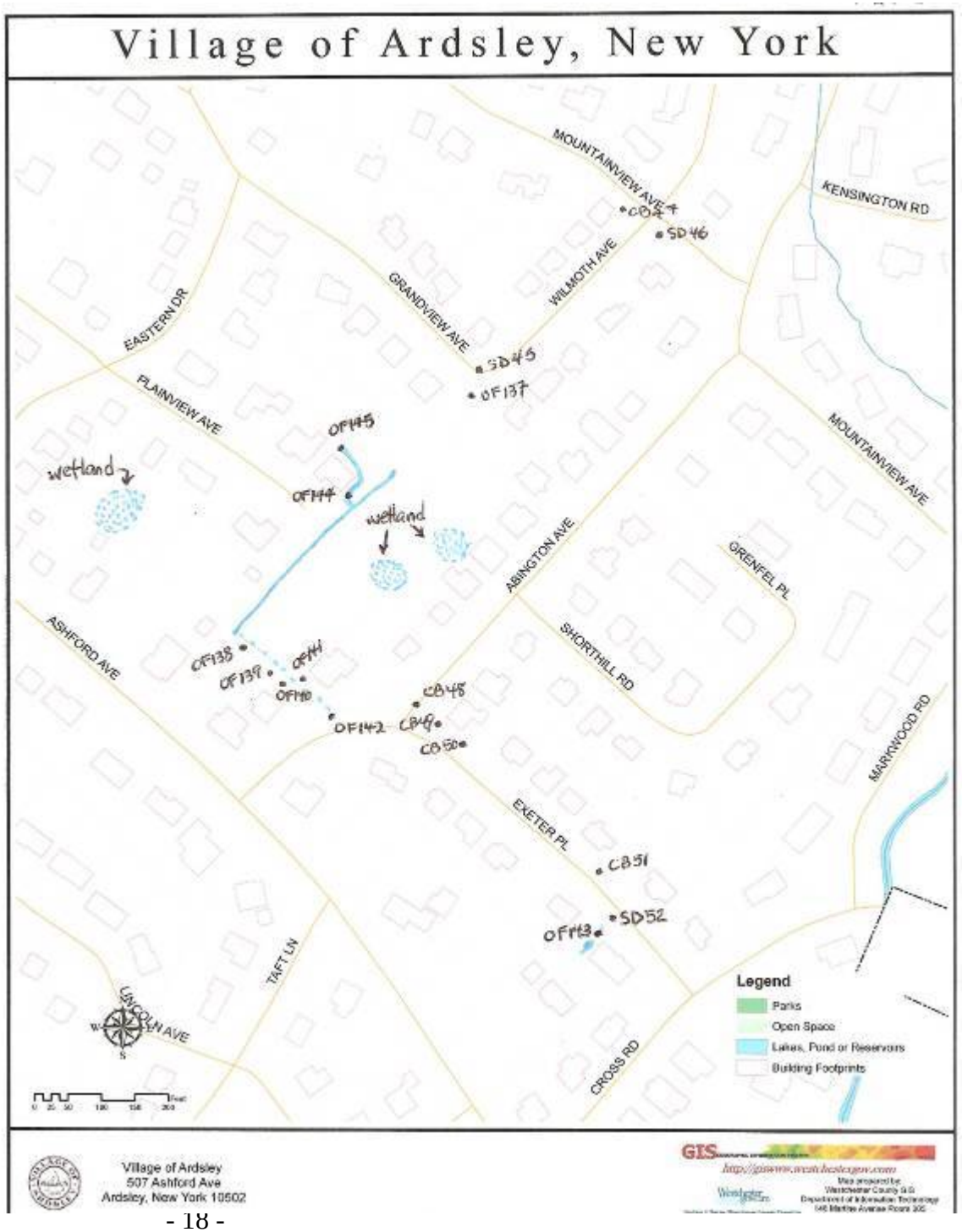
Item 10: Outfall Map of Ardsley

---------- **:** Areas mapped 2005-2006
(see SWMPAR 2005)

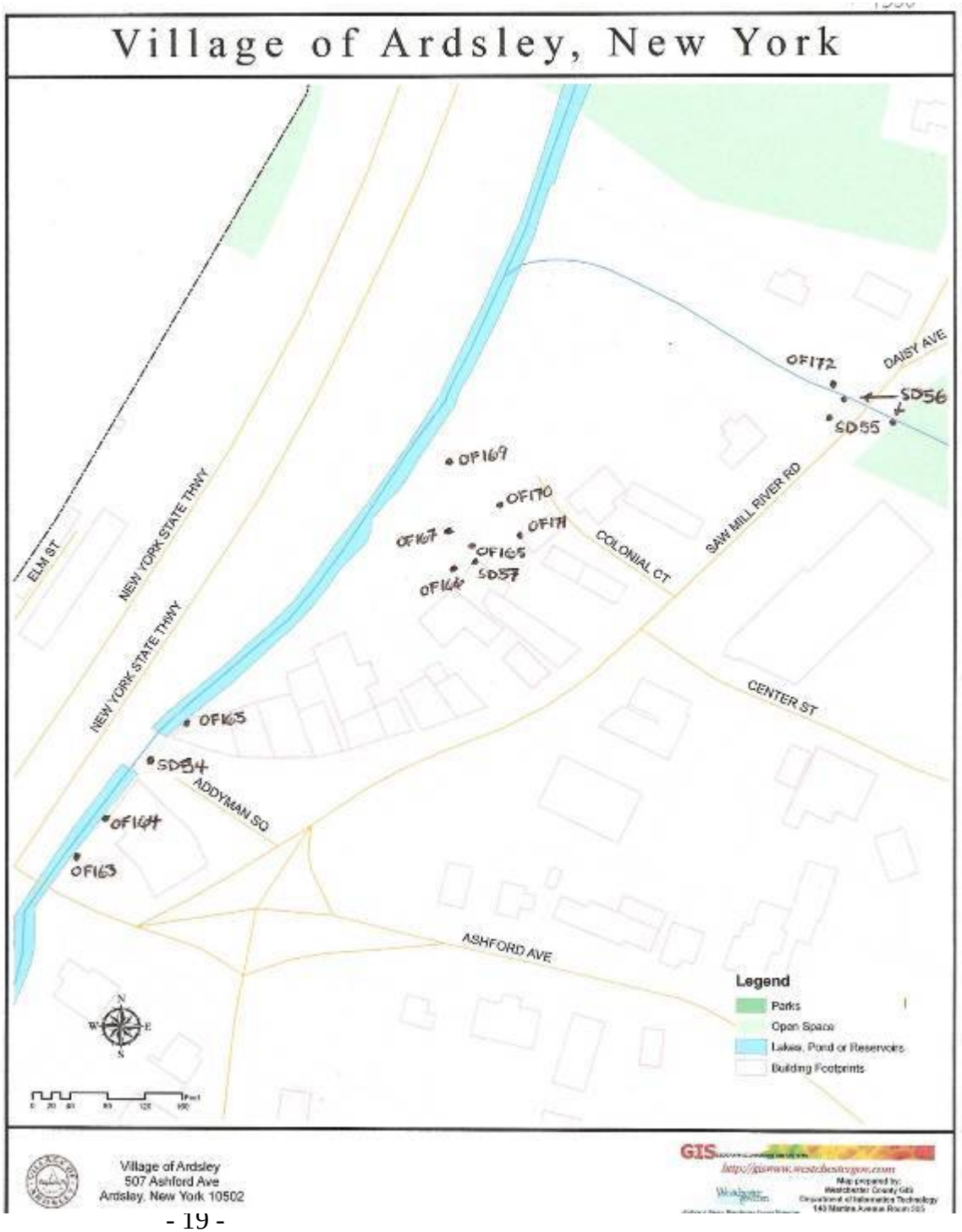
_____ : Mapping 2006-2007



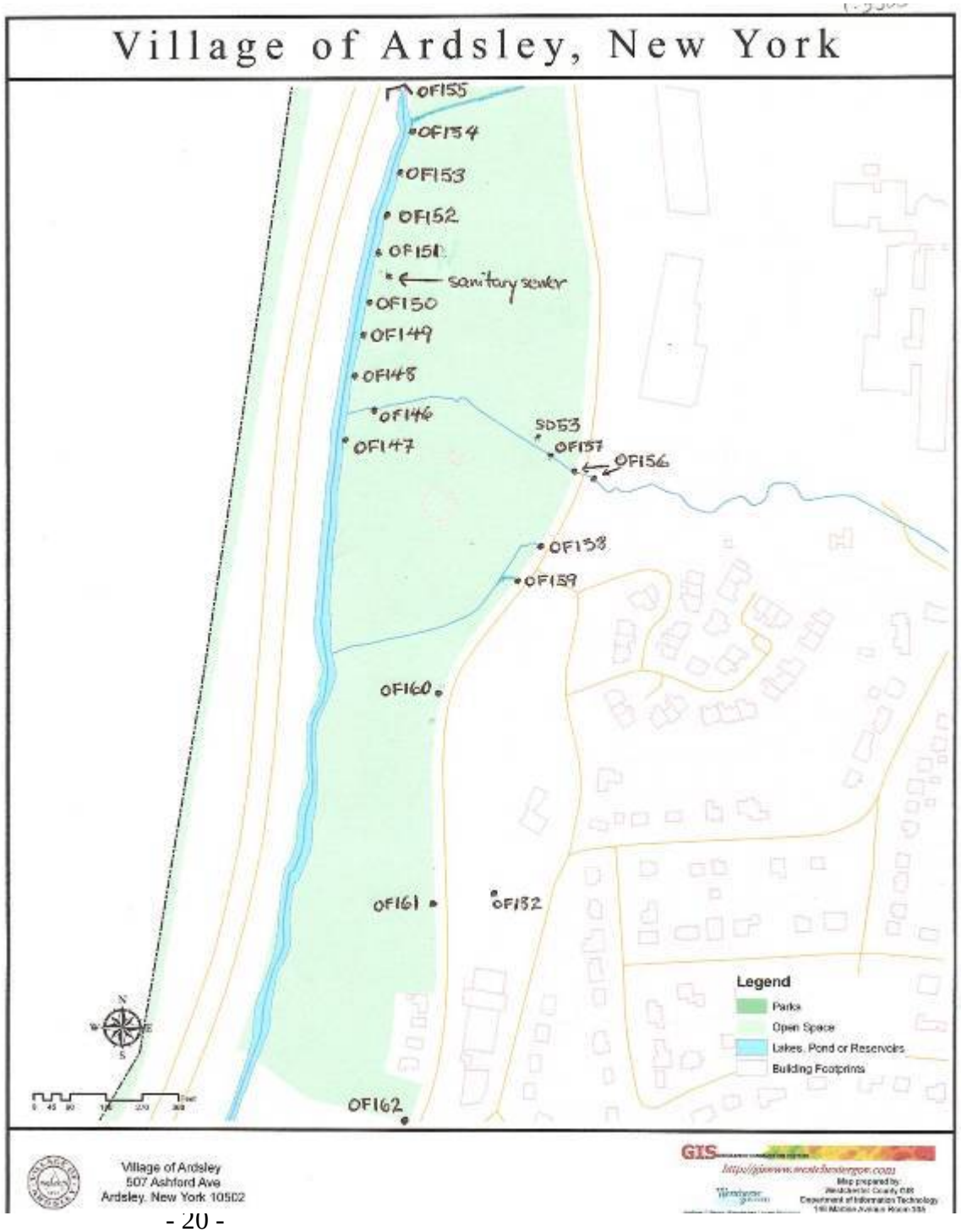
Item 10a: Wilmoth/Mountainview Outfall Map



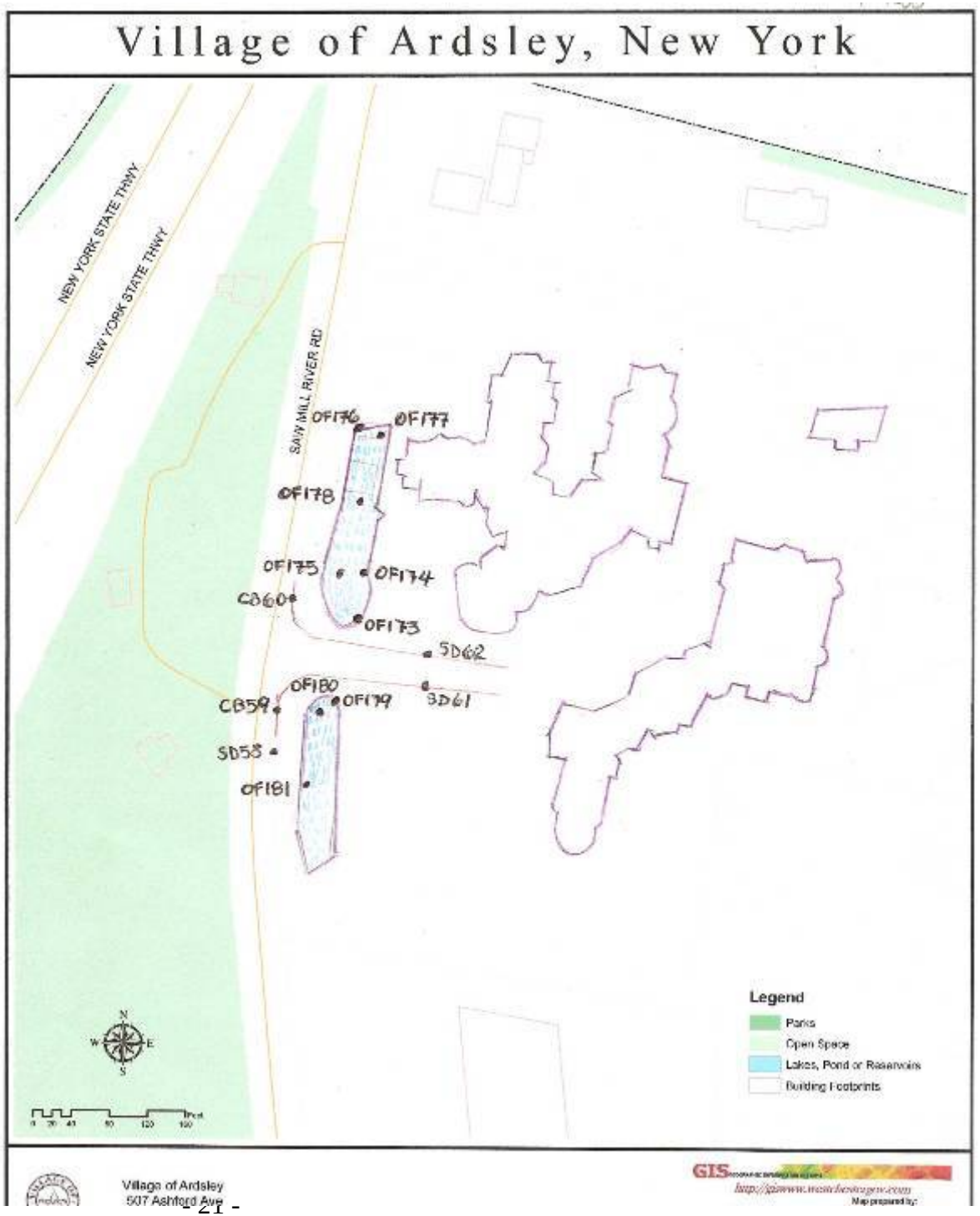
Item 10b: Route 9A/Addyman Square/
Colonial Court
Outfall Map



Item 10c: Route 9A/Macy Park
Outfall Map



Item 10d: Route 9A/Woodlands Outfall Map



Item 10e: Wilmoth/Mountainview
Outfall Photos

SD45:
N 41 00 0.518
W 73 50 0.225

SD46:
N 41 00 0.546
W 73 50 0.169

CB47:
N 41 00 0.549
W 73 50 0.173

CB48:
N 41 00 0.428
W 73 50 0.256

CB49:
N 41 00 0.424
W 73 50 0.252

CB50:
N 41 00 0.420
W 73 50 0.244

CB51:
N 41 00 0.395
W 73 50 0.202

SD52:
N 41 00 0.379
W 73 50 0.181

OF137:
N 41 00 0.509
W 73 50 0.229
18”d cement, 5’ to top, dry, debris

OF138:
N 41 00 0.448
W 73 50 0.307
2’d cement, at surface, 6”deep, clean & clear, debris, no smell

OF139:
N 41 00 0.440
W 73 50 0.295
4”d white PVC, at surface, dry

OF140:
N 41 00 0.436
W 73 50 0.285
2”d PVC, at surface, intermittent flow, no smell, no suds, clean & clear

Item 10e: Wilmoth/Mountainview Outfall Photos

OF141:
N 41 00 0.436
W 73 50 0.285
4”d rusted metal, at surface, 6” rusted metal, 6” below surface, intermittent flow, no suds, no smell, clean & clear

OF142:
N 41 00 0.425
W 73 50 0.275
2’d cement, 5’ to top, debris, partially blocked, 2” deep, moderate flow, no smell, no veg., clean & clear

OF143:
N 41 00 0.382
W 73 50 0.186
20’ X 20’ pond, algae, slight flow in at source, orange stain at source

OF144:
N 41 00 0.483
W 73 50 0.264
1’d cement, 1’ to top, 0.5” deep, steady flow, no smell, clean & clear

OF145:
N 41 00 0.506
W 73 50 0.274
2” d white PVC, at surface, slight flow, clean & clear

Item 10f: Route 9A/Addyman Square/ Colonial Court Outfall Photos

SD 54:
N 41 00 0.743
W 73 50 0.918

SD 55:
N 41 00 0.804
W 73 50 0.762

CB 56 (west side of 9A):
N 41 00 0.811
W 73 50 0.757

SD 57:
N 41 00 0.780
W 73 50 0.843

OF163:
N 41 00 0.714
W 73 50 0.937
Flood gate mechanism, basin mostly empty, some snow

OF164:
N 41 00 0.737
W 73 50 0.926
2'd cement in wall, 8' to top, below Thruway, slight flow

OF165:
N 41 00 0.744
W 73 50 0.918
4'd cement in wall, 10' to top, moderate flow

OF166:
N 41 00 0.780
W 73 50 0.857
3'd cement, 1/3 submerged, 3' to top
6"d green PVC, at surface, dry

OF167:
N 41 00 0.786
W 73 50 0.860
Flood gate mechanism, 3'd

Item 10f: Route 9A/Addyman Square/ Colonial Court Outfall Photos

OF168:
N 41 00 0.785
W 73 50 0.849
6”d, green PVC, at surface, slight flow

OF169:
N 41 00 0.797
W 73 50 0.849
Flood gate mechanism, 3’d

OF170:
N 41 00 0.797
W 73 50 0.832
4”d black corr, at surface, dry

OF171:
N 41 00 0.795
W 73 50 0.820
4”d black corr, at surface, dry

OF172 (east side):

OF172 (north side):
N 41 00 0.804
W 73 50 0.761
East: 15’d stone with gate, 10’ to top, 1/3 submerged
3’d cement in wall, steady flow
North: 3’d cement, 10’ to top, 1/3 submerged, no flow

Item 10g: Route 9A/Macy Park
Outfall Photos

SD53:
N 41 01 0.097
W 73 50 0.659

OF146:
N 41 01 0.128
W 73 50 0.754
4”d metal, 1’ to top, dry

OF147:
N 41 01 0.115
W 73 50 0.766
18”h X 3’w cement rectangle, at surface, dry

OF148:
N 41 01 0.141
W 73 50 0.760
18”d black PVC, at surface, dry

OF149:
N 41 01 0.159
W 73 50 0.758
6”d corr PVC, 3’ to top, dry

OF150:
N 41 01 0.173
W 73 50 0.751
6”d corr PVC, 3’ to top, dry

Item 10g: Route 9A/Macy Park Outfall Photos

OF151:
N 41 01 0.189
W 73 50 0.755
6”d corr PVC, 3’ to top, dry

OF152:
N 41 01 0.200
W 73 50 0.747
6”d corr PVC, at surface, dry

OF153:
N 41 01 0.230
W 73 50 0.740
6”d corr PVC, 1’ to top, dry

OF154:
N 41 01 0.233
W 73 50 0.730
6” corr PVC, at surface, dry

OF155:
N 41 01 0.249
W 73 50 0.731
(point where east/west stream enters SMR)
Bridge under NYS Thruway

Item 10g: Route 9A/Macy Park Outfall Photos

East side of Route 9A

West side of Route 9A

OF156:
N 41 01 0.081
W 73 50 0.647
East: three 6”d rusted iron,
1’ to top, flow is frozen
West: 3’d corr metal, at surface, slight flow, no smell
3’d cement, frozen, debris

OF157:
N 41 01 0.110
W 73 50 0.653
18”d corr metal, 3’ to top, swift flow (flows N to S), clean & clear

OF158:
N 41 01 0.068
W 73 50 0.664
2’d metal, 18” to top, moderate flow, heavy debris

OF159:
N 41 01 0.061
W 73 50 0.675
1’h X 2’w rock rectangle,
3’ to top, frozen flow

OF160:
N 41 01 0.015
W 73 50 0.720
2’d rusted metal, 3’ to top, dry

Item 10g: Route 9A/Macy Park
Outfall Photos

OF161:
N 41 00 0.919
W 73 50 0.724
2'h X 4'w cement rectangle,
dry, in line with runoff pipe from
Heatherdell (south of St. Barnabas)

OF162:
N 41 00 0.837
W 73 50 0.738
3'd cement, 10' to top, dry, halfway up
filled with silt

OF182:
N 41 00 0.928
W 73 50 0.658
(reading taken at hilltop on Heatherdell Rd,
Pipe outlet 100' west and 50' below)
2'd black PVC, at surface, dry

Item10h: Route 9A/Woodlands
Outfall Photos

SD58:
N 41 01 0.302
W 73 50 0.642

CB59:
N41 01 0.306
W 73 50 0.642

CB60:
N 41 01 0.330
W 73 50 0.637

SD61:
N 41 01 0.317
W 73 50 0.620
(flowing S to N)

SD62:
N 41 01 0.323
W 73 50 0.620
(flowing S to N)

OF173:
N 41 01 0.330
W 73 50 0.625
2'd metal, ½ submerged, standing water 6"deep, at surface, stagnant odor, no sewage

OF174:
N 41 01 0.336
W 73 50 0.617
18"d metal, dry, at surface

OF175:
N 41 01 0.339
W 73 50 0.624
2'd black corr PVC, dry, at surface

OF176:
N 41 01 0.363
W 73 50 0.623
2' W X 1'H trapezoid cement, dry, at surface

Item10h: Route 9A/Woodlands
Outfall Photos

OF177:
N 41 01 0.363
W 73 50 0.619
18”d black corr PVC, dry, at surface

OF179:
N 41 01 0.314
W 73 50 0.624
2’d black corr PVC, dry, at surface

OF181
N 41 01 0.303
W 73 50 0.636
East side: 1’d green PVC, 4’ to top, steady flow to west, no smell
West side: 3’d black corr PVC, 10’ to top, receiving flow
Catch basin beneath

OF178:
N41 01 0.357
W 73 50 0.621
18”d black corr PVC, dry, at surface

OF180:
N 41 01 0.313
W 73 50 0.630
3’d cement, standing water 6”deep, algae

Item 11: Stormwater Runoff Issues

Date	Address	Report Method	Problem	Resolution
5/13/2006	61 & 63 Bramblebrook Rd	"Hotline"	Runoff between houses	SMO inspection, Town of Greenburgh source, private property, owner must resolve
7/21	7 Hemlock Rd Hartsdale	"Hotline"	Runoff overwhelms storm drain	DPW Foreman inspection, Town of Greenburgh property, Town must resolve problem
11/17	10 Prospect Avenue	"Hotline"	Icy patch of runoff	SMO Inspection, DPW extending storm drain system and installing new catch basins
12/6	67 Bramblebrook Rd	"Hotline"	Runoff over property	SMO Inspection, private property, owner must resolve, SMO suggests that installer service system to remove silt and clog
12/18	76 Heatherdell Rd	Report to SMO	Leader drains to street	Repair by property owner
12/21	92 Heatherdell Rd	Report to SMO	Sump discharge into right-of-way	Corrected by property owner

Village of Ardsley

Department of Public Works

Manual of Operations and Maintenance Log

(Phase II Stormwater Management Program)

Catch Basin Head Cleaning **Routes: A = Ashford Ave, H = Heatherdell Rd** **EV = Entire Village**		**Bulk Roadside Cleaning** **Route: Entire Village** **(litter and small brush)**	**Bulk Leaf Clean-up** **Routes: A = Ashford Ave, H = Heatherdell Rd** **EV = Entire Village**	
ROUTES	**DATE**	**DATE**	**ROUTE**	**DATE**
A	3/21/2006	3/9/2006	A	3/16/2006
H	3/28	3/21	H	3/17
EV	4/5	4/6	A	3/20
EV	4/24	4/17	H	3/24
EV	5/12	5/9	H	3/31
EV	5/16 (rain)	5/15	A	4/3
EV	6/1	6/7	A	4/5
A	6/7	6/20	EV	4/12
FLOOD CONTROL	6/8	6/21	H	4/13
BLOW OFF-Legion Dr	6/26	6/27	A	4/17
BLOW OFF-Rte 9A	6/26	7/10	H	4/18
EV	7/19 (storm)	7/19	H	4/25
EV	7/22 (storm)	7/20 (storm)	A	5/9
BLOW OFF-Legion Dr	8/9	7/21	A	10/24
BLOW OFF-Rte 9A	8/10	7/27	H	10/25
BLOW OFF-Rte 9A	8/11	8/18	H	10/27
FLOOD CONTROL	8/11	8/18	A	10/30
EV	8/15	9/2 (TS Ernesto)	EV	11/1
EV	8/28 (rain)	9/3	A	11/2
EV	9/2 (TS Ernesto)	9/4	H	11/3
EV	9/3 (TS Ernesto)	9/5	A	11/13
EV	9/14	9/6	H	11/14
EV	9/22	9/7	EV	11/16
A	10/13	9/8	H	11/21
H	10/16	9/11	EV	11/25
EV	10/25	9/20	A	11/27
EV	11/8 (rain)	9/29	H	11/28
EV	11/9 (rain)	10/16	A	12/1
EV	11/15 (storm)	10/30	EV	12/11
EV	12/16	11/14	A	12/14
H	12/27	11/16	H	12/15

Catch Basin Head Cleaning **Routes: A = Ashford Ave, H = Heatherdell Rd** **EV = Entire Village**		**Bulk Roadside Cleaning** **Route: Entire Village** **(litter and small brush)**	**Bulk Leaf Clean-up** **Routes: A = Ashford Ave, H = Heatherdell Rd** **EV = Entire Village**	
ROUTES	**DATE**	**DATE**	**ROUTE**	**DATE**
EV	2/5/2007	12/18/2006	EV	12/22/2006
EV	3/7	12/19	EV	12/28
		12/22	EV	1/8/2007
		12/28	A	1/10
		1/2/2007	EV	1/16
		1/8	EV	1/26
		2/5		

Catch Basin Internal Clean-out

LOCATION	# of BASINS	DATE
Almena Ave	4	3/30/2006
Hilltop	5	4/28
Western	3	5/9
Lincoln / Prospect / Judson	4	5/10
Lincoln / Prospect / Judson	5	5/12
Abington and Kensington	6	5/13
Exeter	2	6/23
Agnes	3	12/14
Riverview	2	12/14
Euclid	2	12/14

Street Sweeping

Routes: HN = North of Heatherdell Rd
HS = South of Heatherdell Rd
AN = North of Ashford Ave
AS = South of Ashford Ave
DB = Downtown Business District, Route 9A/Center St

DATE	ROUTES	DATE	ROUTES
3/9/2006	AN, DB	8/30	AN,DB
3/13	AS,HS	9/6	EV (2 trucks / Ernesto)
4/5	AN, DB	9/13	HN, HS, DB
4/12	AS, DB	9/20	AN, AS, DB
4/19	HN, HS, DB	10/4	HN,HS, DB
4/26	AN, AS, DB	10/11	AN, AS
4/27	HN, HS, DB	10/18	HN, HS, DB
5/3	AN,DB	10/25	AN, AS
5/10	AN, HS, DB	11/1	HN, HS, DB
5/17	AN, AS, DB	11/15	EV
5/23	HN, HS, DB	11/22	AN, AS, DB
5/31	AN, AS, DB	11/28	HN, HS, DB
6/14	HN, HS, DB	12/6	EV
6/21	AN, AS, DB	12/13	AN, AS, DB
6/28	HN, HS, DB	12/19	HN, HS, DB
7/5	AN, AS, DB	3/7/2007	EV
7/11	HN, HS, DB, Elm St		
7/12	AN, AS		
7/19	EV (2 trucks)		
7/26	HN, HS, DB		
8/9	AN, AS		
8/23	EV (2 trucks)		

Road Repair

Location (st/cross st)	Material	Amount (tons)	Date of use
Huntley North pot holes	F-7 State	3	3/24/2006
Heatherdell South pot holes	"	3	3/27
Ashford North and South pot holes	"	4	3/29
Heatherdell North pot holes	F-6	3	4/7
Legion Dr-Lincoln Ave-Judson Ave-Ridge pot holes	F-7 State	3	4/13
McCormack-Exeter-Cross-Abington pot holes	F-6	4	4/18
Ashford Park-Powderhorn-Heatherdell	Curb Mix	3	4/21
Eastern-Hilltop-Crestview-Huntley	F-7 State	3	4/27
Prospect-Carriere-Ridge-Euclid-Lincoln	"	4	5/3
Park Ave-Fairview-Western-McKinley	"	3	5/4
Various pot holes Entire Village	F-6	2	5/11
Heatherdell North and South berms	F-7 State	3	5/18
Shady-Ridge-Bonaventure	F-6	3	4/23
Various pot holes and berms Entire Village	F-7 State	2	6/6
Bonaventure 200 feet of curbing	Curb Mix	4	6/8
Ridge-Bramblebrook-Hilltop	F-6	3	6/23
Ridge-Shady-Bramblebrook-King	"	3	7/11
Victoria-Rest-Agnes-Hillcroft	F-7 State	2	7/31
Farm Rd-Major Appleby	"	70	8/2
Capt Honeywell-Flintlock-Bride	"	58	8/3
Eastern-Grandview-Bramblebrook	F-6	3	8/11
Various repairs	F-7 State	2	9/18
Elm St-Almena-Ridge	E-Z Street Cold Patch	3	3/1/2007

Road Salt Application

Village (total) or Neighborhood (name)	Amount (tons)	Condition	Date applied
Judson and Lincoln	0.25	Water main break	1/10/2007
Almena-Hilltop-Judson	0.25	Runoff freezing	1/11
Village	5	Snow	1/18
Village	4	Snow	1/19
Village	2	Snow	1/22
Village	2	Snow	1/25
Huntley and Heatherdell	0.25	Water main break	1/27
Huntley and Heatherdell	0.25	Water main break	1/28
Huntley and Heatherdell	0.25	Water main break	1/29
Ashford and Fairmont	0.25	Water main break	1/29
Ashford and Fairmont	0.5	Water main break	1/30
Agnes Circle	0.5	Water main break	1/30
Village	3	Snow	1/30
Village	6	Snow	2/2
Village	5	Snow	2/13
Village	9	Snow	2/14
Village	4	Snow mop up	2/15
Beacon Hill and Major Appleby	1	Water main break	2/16
Various locations	2	Freezing rain	2/21
Village	4	Snow	2/25
Village	8	Snow	2/26
Village	6	Snow	3/7

Vehicle Maintenance

Vehicle type	#	Wash or Maintenance (brief description)	Date serviced
Packer	14	Remove wheels, brakes and conisters and rear axel, replace conisters and S-gears, grease and lube entire truck	3/9/2006
Dump	1	Steam clean and remove chain and belts from spreader	3/10
Bucket	B	Replace upper and lower ball joints	3/14
Pick up	9	Brake lines and pads	3/17
Police	96	Brake pads and lubricate	3/21
Police	93	Gasket and filter for transmission	3/22
Jeep	H-1	Routine maintenance	3/23
Pick up	11	Fuel injector	3/23
Police	95	Routine maintenance	3/24
Packer	4	Steam clean	3/27
Packer	12/8	Grease and lubricate	3/28
Packer	8	Mount 2 tires	3/30
Pick up	11	Cut rotors, new brake pads	3/13
Dump	5	Routine, 2 tires	4/3
Dump	5	Hydraulic system	4/4
Tractor	1	Preventive lubricate	4/5
Police	VC	Mount 2 new tires	4/5
Tractor	2	New water pump	4/6
Tractor	1	Refurb fuel injectors and lifters	4/6
Tractor	1	Flush radiator and repair leaks	4/6
Police	95	Replace starter	4/7
Senior Bus	SB	4 new tires and routine maintenance	4/11
Dump	3	Steam clean and routine maintenance	4/11
Police	93	New brakes and new hoses	4/18
Pick up	10	Steam clean and routine maintenance	4/20
Pick up	11	Replace serpentine belt	4/21

Vehicle Maintenance

Vehicle type	#	Wash or Maintenance (brief description)	Date serviced
Packer	15	Steam clean and routine maintenance	4/21/2006
Police	98	New alternator	4/25
Tractor	1	New hydraulic pump	4/26
Packer	4	2 new tires	4/27
Packer	12	Repair oil feed line	4/27
Police	C	Routine maintenance	5/1
Dump	5	Steam clean	5/2
Packer	15	8 new tires and routine maintenance	5/5
Dump	5	Repair radiator leaks	5/8
Pick up	6	Replace brake lines and rear	5/10
Pick up	6	Axle seals and brake pads	5/10
Police	97	New rotors and pads	5/18
Payloader	JD	Routine lube and maintenance	5/23
Pick up	9	New brake lines	5/26
Police	94	Overhaul AC system	5/30
Packer		Routine maintenance	5/31
Dump	3	Routine maintenance	5/31
Pick up	11	Rebuild transmission	6/1
Packer	14	Routine maintenance	6/2
Police	98	New starter	6/7
Jeep	1	Replace bad valve	6/9
Bucket	B	Routine maintenance	6/12
Packer	12	Routine maintenance, repair faulty injector and seal	6/20
Packer	15	Steam clean	6/25
Packer	8	Repair hydraulic line leak	6/26
Senior Bus	SB	Routine, new brakes	6/27
Police	95	4 new tires, head sealant, brakes	6/29

Vehicle Maintenance

Vehicle type	#	Wash or Maintenance (brief description)	Date serviced
Police	96	Repair oil leak	7/5/2006
Crown Vic	BI	Routine maintenance	7/5
Packer	14	Power wash and steam	7/7
Packer	15	Power wash and steam	7/7
Pick up	9	Soap and water wash	7/7
Pick up	11	Soap and water wash	7/7
Packer	12	New injector and seal	7/21
Packer	8	Routine maintenance	7/21
Payloader	PL	Steam clean and lube	7/22
Dump	3	New bearing and seals front	7/23
Dump	3	Steam clean	7/24
Packer	8	Repair hydraulic leak	7/26
Senior Bus	SB	Routine maintenance	7/27
Police	95	2 tires, front brakes, head seal	7/29
Crown Vic	BI	Routine maintenance	7/30
Pick up	7	Steam clean	7/30
Pick up	6	Steam clean	7/30
Pick up	9	Steam clean	7/30
Dump	5	Steam clean	7/30
Police	97	Overheat and oil leak repair	8/1
Dump	1	Steam, scrape rust , repair and paint	8/2
Pick up	9	New ignition	8/3
Police	94	Routine maintenance	8/6
Dump	1	Replace air brake chamber and hydraulic lines	8/10
Bucket truck	B	Replace rear axle bearing and fix oil pan leak	8/14
Tractor	1	Replace front axle	8/16

Vehicle Maintenance

Vehicle type	#	Wash or Maintenance (brief description)	Date serviced
Police	DC	Routine maintenance	8/20/2006
Packer	15	Repair 2 hydraulic leaks	8/24
Crown Vic	MGR	Routine maintenance	8/28
Packer	14	Repair hydraulic hose and change fluid	9/1
Packer	8	Repair PTL and change speed up switch	9/2
Packer	12	Replace fuel filter and routine maintenance	9/6
Pick up	10	Replace resistor and blower motor	9/11
Dump	2	Replace 3 batteries and routine maintenance	9/15
Dump	2	Replace spinner kit and steering linkage	9/20
Packer	15	Repair coolant leak, install new reservoir, overflow, hose & cap	9/22
Pick up	11	Install 2 U-joints	9/26
Pick up	11	Install new separator and hoses	9/28
Dump	1	Replace wire harness	9/29
Jeep	1	Replace 2 rotors and AC condenser and routine maintenance	10/3
Police	97	Replace coil (leak)	10/4
Police	94	Replace 4 rocker bearings and transmission filter, adjust linkage	10/8
Police	95	Replace transmission pan and repair exhaust system	10/11
Tractor	2	Routine maintenance	10/16
Packer	15	Repair oil leak, front tire bearing, replace all filters	10/17
JD Payloader	P-2	1 year maintenance	10/20
Police	95	Replace brake line	10/22
Senior Bus	SB	New brakes, cooler sensor, routine maintenance	10/27
Police	94	New brakes (front and rear), exhaust, routine maintenance	10/30
Police	UM	Replace radiator	11/2
Packer	8	Replace 3 tires	11/4
Pick up	11	2 front tires, alignment	11/8
Dump	1&2	Steam Clean	11/11

Vehicle Maintenance

Vehicle type	#	Wash or Maintenance (brief description)	Date serviced
Police	95	Routine and change coil	11/13/2006
Police	96	Replace battery and altenator	11/15
Police	94	3 new tires, new battery	11/17
Dump	5	Routine, overhaul exhaust, new fuel filter	11/20
Pick up	11	New front left and right tie rods	11/28
Packer	14&15	Replace all seals and gasket on hoppers (leakage)	12/1
Pick up	6	Winterize and routine maintenance, rotate tires	12/2
Payloader	2	Steam clean and lube	12/3
Dump	3	Change batteries (2) terminals and cables	12/6
Police	97	Change tires (4)	12/6
Detective Car	DC	Routine maintenance	12/8
Police	97	Repair transfer case	12/9
Pick up	11	Change glow plugs, power steering pump, replace intake neck, routine maintenance	12/12
Packer	8	Exhaust- new pipe, clamps, gasket	12/20
Pick up	6	Steam clean	12/22
Pick up	11	Steam clean	12/22
Pick up	9	Steam clean	12/22
Pick up	7	Steam clean	12/22
Dump	5	Steam clean	12/22
Dump	1	Steam clean	12/22
Pick up	9	Repair transmission lines, routine maintenance	12/26
Packer	15	Repair hydraulic leak	1/2/2007
Police	95	Routine and 2 tires	1/4
Pick up	9	Replace thermostat and hose	1/9
Pick up	11	Replace oil pan and 2 motor mounts and 3 transmission seals	1/12
Pick up	10	Replace front and rear brakes, 2 rotors, U-joints and 2 tires	1/18

Vehicle Maintenance

Vehicle type	#	Wash or Maintenance (brief description)	Date serviced
Police	97	Replace tensioner and routine maintenance	1/26/2007
Dump	3	Repair leaky fuel tank	1/31
Senior Bus	SB	Routine maintenance	2/2
Packer	8	Clean gas filter	2/5
Pick up	10	Replace springs and rear axle seals	2/6
Pick up	10	Overhaul exhaust front to back	2/7
Pick up	6	Clean salt all sander	2/15
Pick up	7	Clean salt all sander	2/15
Pick up	9	Clean salt all sander	2/15
Pick up	11	Clean salt all sander	2/15
Pick up	10	Clean salt all sander	2/15
Dump	1	Clean salt all sander	2/15
Dump	2	Clean salt all sander	2/15
Dump	3	Clean salt all sander	2/15
Bucket	BT	Rebuild brake lines front to back	2/16
Pick up	6	Install new fuel pressure sensor	2/21
Pick up	11	Replace hydraulic hose	2/25
All snow vehicles	1-3	Wash with soap and water	3/5
	5-6	Wash with soap and water	3/5
	7-9	Wash with soap and water	3/5
	6-10	Wash with soap and water	3/5
	11	Wash with soap and water	3/5

Incident Report

Location (st/cross st)	Description (water main, sewage)	Date incident	Repair (DPW or other)	Date repaired
694 Saw Mill River Rd	Sewer Blockage	3/28/2006	Ardsley DPW	3/28/2006
Hillcrest	Sewer	6/5	Greenburgh DPW	6/5
Hilltop	Sewer	7/3	Greenburgh DPW	7/4
701 Saw Mill River Rd	Sewer	8/1	Private (by owner)	8/3
Western Dr	Sewer	8/24	Ardsley DPW	8/24
Windsong	Ejector Pump	9/14	Ardsley DPW / Hoy Plumbing	9/15
5 Hillside Ave	Sewer	11/8	Greenburgh DPW	11/8
Western Dr	Sewer	12/7	Ardsley DPW	12/7
Revolutionary Rd	Sewer	3/7/2007	Greenburgh DPW	3/8/2007

Training Sessions

Name of Course/Seminar	Location	Date	Attendees
OSHA / HAZMAT	Ardsley Fire Dept 701 Saw Mill River Rd	1/11/2007	Fire Dept / 31 Attendees
OSHA / Booms and HM	Ardsley Fire Dept 701 Saw Mill River Rd	1/18	Fire Dept / 40 Attendees
OSHA / Incident Comm	Ardsley Fire Dept 701 Saw Mill River Rd	1/25	Fire Dept / 32 Attendees
SW Pollution Prevention / EXCAL Program	Ardsley DPW 3 Elm St Ardsley, NY	3/9	DPW Dept / 14 Attendees (entire Dept)

Storm Watch: Municipal Stormwater Pollution Prevention

Regulated municipalities are required to train their employees on stormwater pollution prevention and BMPs. This 20-minute video training kit helps regulated municipalities (Phase I and Phase II) train their employees as required under their Permit. The video focuses on BMPs that are important to many municipal operations such as good housekeeping, spill response, materials storage and handling, landscape maintenance and street maintenance. Employees working in fleet maintenance, garages, parks, recreation facilities, street maintenance and other departments can all benefit from this training video. The video also shows employees how to spot potential "illicit discharges" occurring around town.
(Price:$495.00) Available in English

- Video, CD-ROM or DVD: "Storm Watch: Municipal Stormwater Pollution Prevention" (20 minutes)
- Trainer's Guide
- Employee quizzes
- Acknowledgement of Training forms
- Storm Water Best Management Practices Guidebooks

To watch the program, or get more info try one of these . . .

Watch Now On-line!

click to watch on-line

Request a 15 day trial >>

REQUEST PREVIEW

Call us >> **888-925-6554**

www.excalvisual.com

Item 13: SW Pollution Prevention BMP's Training Program