

ANNUAL REPORT

FOR

Livingston County Drain Commissioner



**PREPARED IN COMPLIANCE WITH
MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY**

PHASE II STORM WATER REGULATIONS

**GENERAL STORM WATER PERMIT
MIG619000**

and

**CERTIFICATE OF COVERAGE
MIG610202**

October 19, 2005

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Attachment 2: Calendar of Message Distribution for the SEMCOG “Ours to Protect” Public Outreach Campaign.

Attachment 3: Copies of SEMCOG newspaper PSA’s that were printed in the Livingston County Press and Argus.

Attachment 4: Copies of LCDC compost bin event newspaper articles.

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Attachment 6: Calendar of the LCDC Household Hazardous Waste Collections days for 2005.

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Attachment 8: Copy of Livingston Clean Waterfest event guide.

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Attachment 10: LCDC outfall prioritization schedule.

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Upper-2 Shiawassee River and the Huron Chain of Lakes Subwatershed Group Progress

The LCDC is an active member of both the Upper-2 Shiawassee River (USR) and Huron Chain of Lakes (HCOL) subwatershed groups. Both groups have been meeting regularly (every month with a few exceptions) since December of 2002 to discuss issues related to the Phase II Storm Water Regulations and to complete the process of developing a Watershed Management Plan (WMP) for each subwatershed. The group is being facilitated by the Livingston County Drain Commissioner (LCDC) and assisted by the Huron River Watershed Council (HRWC) and Hubbell, Roth & Clark, Inc. (HRC).

In last year's annual report, we reported the following items that were completed in the development of the WMP:

- Formally agreed upon allocation of the costs of developing a WMP and the decision-making process to be used in formulating the plan;
- Continued development of the WMP by:
 - Determining a Geographic Scope of the Watershed;
 - Determining the Designated and Desired Uses;
 - Reviewing existing water quality data;
 - Collecting additional data through a Road/Stream Crossing Survey;
 - Developing a list of significant pollutants and their sources and causes;

Over the course of the present reporting period, we have completed the following items in the development of the WMP:

- Developed a set of goals and objectives for the watershed;
- Developed a set of recommended Best Management Practices (BMPs) to achieve the goals and objectives of the WMP;
- Determined estimated costs and timelines for implementation of the recommended BMPs;
- Developed an Information and Education Strategy that compliments the PEP; and,
- Developed a process to evaluate progress on implementation of the WMP.
- The USR subwatershed group submitted a draft USR WMP to your office on August 10, 2005, for your review and feedback prior to the final submittal.

Public Education Plan (PEP) Progress

The purpose of the PEP is to promote, publicize, and facilitate watershed education for the purpose of encouraging the public to reduce the discharge of pollutants in storm water to the maximum extent practicable (MEP). The “public” includes, but is not limited to, watershed residents, public employees, businesses, industries, visitors to the area, construction contractors, and developers.

The BMP activities that have been scheduled to be implemented as part of our PEP are summarized below in Table 1. Table 1 also provides detail on the method of implementation, method of measuring progress, schedule, and the specific actions taken in this reporting period to achieve each BMP activity that fulfills each required element of our PEP.

Table 1 Summary of Public Education Plan Activities

BMP Activity	Method of Implementation	Methods of Measuring Progress	Schedule	Action Taken
Required Element #1 Personal Watershed Stewardship: Educate the public on their responsibility and stewardship in the watershed.				
#1.1: Southeast Michigan Partners for Clean Water Informational Materials Target Audiences: Residents, visitors, public employees, businesses, industries, construction contractors, and developers. Key Messages: <ul style="list-style-type: none"> Reasons for protecting a watershed How individuals affect their watershed and what they can do to protect water resources 	<ul style="list-style-type: none"> Distribution of 7 Simple Steps to Clean Water campaign informational materials. Distribution of Watershed Placemats (kids activity sheet). 	<ul style="list-style-type: none"> Number of brochures, tip cards, magnets, pens, paper pads, etc. distributed. Number and type of posters on display at Livingston County offices. Number of restaurants receiving placemats and number of placemats distributed. Number of local events that informational materials were distributed at. Types of information posted on Livingston County Drain Commissioner’s 	Distribute throughout permit cycle;	<ul style="list-style-type: none"> The LCDC purchased 300 “Seven Simple Steps Brochures” and 300 tip cards of each of the 7 Simple Steps to Clean Water. The brochures were placed on the LCDC counter; to date, 60 brochures have been taken by visitors to the hall. At the Livingston County Home Show on April 1, 2, 3, 2005, 39 “7 Simple Steps to Clean Water” brochures and 23 tip cards of each of the 7 simple steps were distributed. During the two HCOL public meetings and two USR meetings, SEMCOG brochures and tip cards were also distributed. During the Livingston County Household Hazardous Waste collection on August 23, 2005, 34 “7 Simple Steps” brochures and tip cards were distributed. At the “In your own backyard show” on April 6, 2005, 19 “7 Simple Steps to Clean Water” brochures and tip cards of each of the “7 Simple

		<ul style="list-style-type: none"> stormwater website. Number of website hits 		<ul style="list-style-type: none"> Steps” were distributed. The LCDC posted each of the “7 Simple Steps to Clean Water” posters at our front desk for residents to view. Town Commons Apartments put up 6 “Clean up after your Pet” posters in their hallways. The LCDC purchased 1,000 kids activity sheets, which they plan on distributing to restaurants in Livingston County and having available at the front counter.
<p>#1.2: Community Watershed Calendar</p> <p>Target Audience: Residents</p> <p>Key Messages:</p> <ul style="list-style-type: none"> Definition of a watershed What watershed do you live in/affect Reasons for protecting a watershed How individuals affect their watershed and what they can do to protect water resources 	<ul style="list-style-type: none"> Distribution of calendar that highlights information on watershed awareness and tips to help prevent pollution from entering area waterways. 	<ul style="list-style-type: none"> Number of calendars distributed. Number of surveys returned that are included with calendars. Track changes in survey responses over time to reflect increased knowledge/awareness of watersheds and the impacts of nonpoint source pollution. 	<p>Distribution will occur in Years 2 and 4 of the permit cycle.</p>	<ul style="list-style-type: none"> The Drain Commissioner’s office has purchased 400 copies of the HRWC watershed calendar and plans to distribute to area residents next year.
<p>#1.3: Southeast Michigan Partners for Clean Water Mass Media Efforts</p> <p>Target Audiences: Residents, visitors</p> <p>Key Messages:</p> <ul style="list-style-type: none"> Reasons for protecting a watershed How individuals affect their watershed and what they can do to protect water resources 	<ul style="list-style-type: none"> Public Service Announcements (PSAs) regarding the 7 Simple Steps for Clean Water will be aired on Comcast Cable Television and local radio stations. The LCDC may augment this program by working directly with the local media. 	<ul style="list-style-type: none"> Number and type of media promotion events. Number and types of programs aired on the local cable access channel. 	<p>Spring and Fall throughout the permit cycle.</p>	<ul style="list-style-type: none"> “Working for Clean Water, it begins with you” video aired on the Hartland local cable access channel on the following dates: January 10, 11 and 15, June 30, July 2, and July 5. The program highlights tips for nonpoint source pollution prevention and how to detect illicit discharges. SEMCOG’s “Clean Water” PSA was aired on Hartland local cable access channel on the following dates: June 10 through June 21 and June 29 through July 5. 7 Public Service Announcements were developed and aired by Comcast Cable. They aired numerous times on Animal Planet, TNT, Outdoor Life Network, and ESPN

				<ul style="list-style-type: none"> • 2/23/05 Interview in Crain’s Magazine on the overall “Seven Simple Steps” program • 3/3/05 On-air news story on WDIV (NBC Affiliate) on cleaning up after pet. • 4/10/05 On-air news story on soil testing on 950 AM-WWJ
<p>#1.4: Information in Lake Association Newsletters</p> <p>Target Audiences: Residents, visitors, public employees, businesses, industries, construction contractors, and developers.</p> <p>Key Messages:</p> <ul style="list-style-type: none"> • Definition of a watershed • What watershed do you live in/affect • Reasons for protecting a watershed • How individuals affect their watershed and what they can do to protect water resources 	<ul style="list-style-type: none"> • Newsletters will contain information regarding tips on nonpoint source pollution prevention, watershed awareness and watershed stewardship. 	<ul style="list-style-type: none"> • Number of newsletters distributed. • Messages conveyed in newsletters. • Frequency of articles published. 	Bi-annually throughout the permit cycle.	<ul style="list-style-type: none"> • The LCDC published 1,200 newsletters for residents on Thompson Lake, Tyrone Lake and Cedar Lake in May and October 2005. The May 2005 newsletters can be found in Attachment 1. These newsletters contained tips on: <ul style="list-style-type: none"> ○ Fertilize sparingly ○ Watershed Awareness ○ Illicit Discharge Detection and Reporting ○ Washing cars on grass or at a car wash ○ Not over-watering lawns ○ Household Hazardous waste disposal
<p>#1.5: Website Information</p> <p>Target Audiences: Residents, visitors, public employees, businesses, industries, construction contractors, and developers.</p> <p>Key Messages:</p> <ul style="list-style-type: none"> • Definition of a watershed • What watershed do you live in/affect • Reasons for protecting a watershed • How individuals affect 	<ul style="list-style-type: none"> • The LCDC maintains a Phase II stormwater website link with information regarding the six elements of the PEP. A link is also provided to SEMCOG’s “7 Simple Steps to Clean Water” campaign. 	<ul style="list-style-type: none"> • Number of website hits. • Types of information available on website. 	Begin in Year 1 and continue throughout permit cycle.	<ul style="list-style-type: none"> • The LCDC Phase II Website was established in December of 2004 and from January 2005 to October 1, 2005, the site received 1,837 hits. The site contains information on: <ul style="list-style-type: none"> ○ Watershed awareness ○ NPDES Phase II storm water program. ○ Advertisement for local watershed events and workshops ○ LCDC PEP, PIP, IDEP and 2004 annual report. ○ HCOL and USR draft watershed management plans. ○ Links to various environmental organizations and informational websites. ○ Link to the LCDC solid waste website for

<p>their watershed and what they can do to protect water resources</p>				<p>tips on household hazardous waste disposal.</p> <ul style="list-style-type: none"> • LCDC Website has a link to SEMCOG’s website, which receives an average of 5,000 hits per month on their Seven Simple Steps for Clean Water.
<p>#1.6: Cable Access/Community Billboard</p> <p>Target Audiences: Residents, visitors, public employees, businesses, industries, construction contractors, and developers.</p> <p>Key Messages:</p> <ul style="list-style-type: none"> • Definition of a watershed • What watershed do you live in/affect • Reasons for protecting a watershed • How individuals affect their watershed and what they can do to protect water resources 	<ul style="list-style-type: none"> • All key messages of the PEP will be addressed through videos, PSAs, and text materials provided by SEMCOG, HRWC, Wayne County Department of Environment (WCDOE), etc. on the local cable access channel. 	<ul style="list-style-type: none"> • Type of information aired and the dates of airing. 	<p>Begin in Year 1 and continue throughout permit cycle.</p>	<ul style="list-style-type: none"> • “Working for Clean Water, it begins with you” video aired on the Hartland local cable access channel on the following dates: January 10, 11 and 15, June 30, July 2, and July 5. The program highlights tips for nonpoint source pollution prevention and how to detect illicit discharges. • SEMCOG’s “Clean Water” PSA was aired on Hartland local cable access channel on the following dates: June 10 through June 21 and June 29 through July 5. • “Livingston Clean Waterfest” advertisement was aired numerous times on the City of Howell and Hartland township local cable access channel. The commercial highlighted the importance of watershed awareness and activities that were taking place during the event.
<p>#1.7: Newspaper Advertisements</p> <p>Target Audiences: Residents, visitors, public employees, businesses, industries, construction contractors, and developers.</p> <p>Key Messages:</p> <ul style="list-style-type: none"> • Reasons for protecting a watershed • How individuals affect their watershed and what 	<ul style="list-style-type: none"> • The LCDC, in coordination with the HRWC, will coordinate the efforts to have PSAs that cover the “7 Simple Steps” campaign, in addition to PEP elements 1-5, in local newspapers. 	<ul style="list-style-type: none"> • Frequency and number of advertisements run. • Number of inquiry calls received as a result of advertisements. 	<p>Begin in Year 1 and on-going throughout permit cycle.</p>	<ul style="list-style-type: none"> • Starting on March 25, 2005, one of the “7 Simple Steps to Clean Water” messages was and will be printed in the Livingston County Press & Argus newspaper every Friday until November 25, 2005. Each month a different tip of the “7 simple steps” is highlighted following the calendar supplied by SEMCOG. The SEMCOG calendar can be found in Attachment 2 of the annual report. Copies of the PSA’s can be found in Attachment 3 of the annual report.

they can do to protect water resources				
<p>#1.8: Water Quality Displays</p> <p>Target Audiences: Residents, visitors, public employees, businesses, industries, construction contractors, and developers.</p> <p>Key Messages:</p> <ul style="list-style-type: none"> • Definition of a watershed • What watershed do you live in/affect • Reasons for protecting a watershed • How individuals affect their watershed and what they can do to protect water resources 	<ul style="list-style-type: none"> • The LCDC will utilize water quality displays available through themselves and/or SEMCOG to disseminate information regarding the six elements of the PEP. • The LCDC will have informational brochures, booklets, pamphlets, fliers, etc. available for pickup by visitors to the LCDC office. 	<ul style="list-style-type: none"> • Number of events attended with displays. • Number and types of information disseminated. 	<p>Begin in Year 1; on-going throughout permit cycle.</p>	<ul style="list-style-type: none"> • The LCDC Water Quality display was put up at the following events: <ul style="list-style-type: none"> ○ Livingston County Homeshow on April 1, 2, and 3, 2005. ○ In your own backyard show on April 6, 2005. ○ Livingston Clean Waterfest on June 11, 2005. ○ Red Cross Blood Drive at the Livingston County Road Commission on March 11, 2005. ○ Two public meetings for both the USR and HCOL watershed management groups. • Two Public Meetings were held this year for the USR and HCOL watershed planning efforts to provide educational and information sharing opportunities during the planning process <ul style="list-style-type: none"> ○ The USR Watershed public meetings were held on: <ul style="list-style-type: none"> ❖ May 4, 2005 ❖ August 31, 2005 ○ The HCOL Watershed public meetings were held on: <ul style="list-style-type: none"> ❖ May 25, 2005 ❖ September 20, 2005 • The following brochures, booklets, pamphlets and fliers were distributed to residents visiting the LCDC office during the past year: <ul style="list-style-type: none"> ○ 25 HRWC “automotive care” tip card ○ 25 HRWC “lawn and garden” tip card ○ 25 HRCW “deck and lumber” tip card ○ 10 NRCS “Plants out of Place” brochure ○ 75 SEMCOG “7 simple steps to clean water” brochures and tip cards ○ 20 CES “Landscaping for water quality” ○ 20 NALMS “Your Lake and You” newsletter ○ 25 DEQ “Practical tips for home and yard to improve water quality” brochure

				<ul style="list-style-type: none"> o 15 CRWC “A citizen’s guide to cold water practices” brochure o 50 SEMCOG “Seven simple steps to clean water” kids activity sheets o 15 HRWC “Adopt-A-stream” brochure o 100 LCDC “home composting” information packet o DEQ “Pollution prevention at home” brochure • The following events were promoted at the LCDC front desk throughout the year: <ul style="list-style-type: none"> o Livingston County Home Show o MSU Extension soil testing o Livingston Clean Waterfest o MSU Extension watershed short course o MDEQ SWPPI workshop o LCDC Household hazardous waste disposal calendar o Four public meetings for the USR and the HCOL watersheds. o LCDC compost bin sale o Livingston County Motor oil recycling locations
<p>#1.9: Promotion of Water Resource Protection Workshops</p> <p>Target Audiences: Residents, visitors, public employees, businesses, industries, construction contractors, and developers.</p> <p>Key Messages:</p> <ul style="list-style-type: none"> • Definition of a watershed • What watershed do you live in/affect 	<ul style="list-style-type: none"> • Workshops will be promoted through the use of advertisements, email distribution lists to stakeholders, flyers, etc. • Workshops will target the six elements of the PEP, in addition to other components of the Phase II storm water program. 	<ul style="list-style-type: none"> • Number and types of workshops held. • Number of attendees at each workshop. 	On-going throughout permit cycle.	<ul style="list-style-type: none"> • The Livingston County Watershed Management Short Course was held on Mondays from May 16th-June 13th, and Wednesdays from September 7th- 28th. One Saturday field session was also held during each series. A total of 19 attendees took part in the short course. The topics covered were: <ul style="list-style-type: none"> o Watershed basics o Why we manage watersheds o Field trip on electric shocking and invertebrate inventory. o People and politics o Putting it all together o Land use planning

<ul style="list-style-type: none"> • Reasons for protecting a watershed • How individuals affect their watershed and what they can do to protect water resources 				<ul style="list-style-type: none"> o Who does what? Roles of Gov't and organizations o Wells, wastewater and solid waste o Stormwater BMP field trip o Waterfront property management. • The Stormwater, Soil Erosion, & Sedimentation Workshop was held on Monday, December 6, 2004 and covered topics of: <ul style="list-style-type: none"> o Stormwater Management o Sanitary Sewer Management o Phosphorus Pollution o Storm Water Treatment Options • During the USR watershed public meeting, on May 4, 2005, the following was distributed: <ul style="list-style-type: none"> o 14 "Landscaping for Water Quality" o 5 MSU Extension watershed short course brochures o 14 "7 simple steps" tip cards o 8 LCDC Household hazardous waste disposal calendar brochure o 8 LCDC compost waste distribution brochures • During the USR watershed public meeting on August 31, 2005, the following was distributed: <ul style="list-style-type: none"> o 14 SEMCOG "Carefully store and dispose of household cleaners, chemical, and oil" o 4 SEMCOG "Help keep pollution out of storm drains" o 6 SEMCOG "Save water" o 14 SEMCOG "Choose earth-friendly landscaping" o 3 SEMCOG "Fertilize sparingly and carefully" o 3 SEMCOG "Practice good car care" o 4 SEMCOG "Clean up after your pet" o 6 SEMCOG "Seven simple steps to clean water" o 5 MSU Extension watershed short course brochures o 3 Cooperative Lakes Monitoring Program o 5 DEQ's "Practical tips for home and
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				<p>yard”.</p> <ul style="list-style-type: none"> o 10 HRWC “Runoff as a resource” o 10 CES “Landscaping for water quality” o 8 SEMCOG “Opportunities for Water Resource Protection in Local Codes, Ordinances and Programs – A Workbook for Local Governments” <ul style="list-style-type: none"> • During the HCOL watershed public meeting on September 20, 2005, the following was distributed: <ul style="list-style-type: none"> o 9 CES “Landscaping for water quality” o 4 MSUE watershed short course field trip flyers o 7 LCDPH “Disposal of effluent” flyer o 4 Cooperative Lakes Monitoring Program brochures o 3 DEQ’s “Practical tips for home and yard” flyers o 4 HRWC “Runoff as a resource” booklets o 3 MSUE watershed management short course brochures o 4 LCDPH “Keep your septic system safe” brochures o 4 LCDPH “Your septic system reference guide” • The DEQ’s Storm Water Pollution Prevention Initiative (SWPPI) Workshop was promoted through: <ul style="list-style-type: none"> o Information and application form posted on Website. o Applications available on LCDC front desk. o E-mailed information to Phase II communities. • LCDC will be hosting a stormwater workshop “Avoiding a flood of Problems – managing storm water along with growth” on November 9, 2005. All township, village, city and county planners and supervisors are invited to attend. Topics being covered are: <ul style="list-style-type: none"> o Storm water 101
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				<ul style="list-style-type: none"> o Benefits of planning o Low impact development o Innovations in storm water
<p>#1.10: Promotion and Support of Volunteer Stream/Lake Monitoring</p> <p>Target Audience: Residents</p> <p>Key Message:</p> <ul style="list-style-type: none"> • Watershed and associated water quality awareness 	<ul style="list-style-type: none"> • The LCDC will work in coordination with the HRWC to promote the Adopt-A-Stream Program. Promotion of program will occur through availability of Adopt-A-Stream Literature and posting of volunteer event opportunities on the LCDC website. • The LCDC will promote volunteer participation in the Cooperative Lakes Monitoring Program (CLMP) through availability of CLMP literature and posting of volunteer event opportunities in the LCDC lake newsletters and on their storm water website. 	<ul style="list-style-type: none"> • Number of volunteers in each program and the location of sampling/investigation. • Compilation of promotion efforts. • Results from monitoring reported annually. 	Start promotions in Year 1; on-going throughout permit cycle.	<ul style="list-style-type: none"> • The LCDC has promoted the HRWC Adopt-A-Stream program in the following ways: <ul style="list-style-type: none"> o Link on our Phase II website o Materials distributed at front counter o Materials distributed during stormwater events and workshops. • The LCDC has promoted the MDEQ Cooperative Lakes Management Program (CLMP) in the following ways. <ul style="list-style-type: none"> o Materials distributed at front counter o Materials distributed during stormwater events and workshops o Information regarding the program will be in the November newsletters for Thompson, Cedar and Tyrone lakes.
<p>#1.11: Utilization of Watershed Signage</p> <p>Target Audiences: Residents, visitors, public employees, businesses, industries, construction contractors, and developers.</p> <p>Key Messages:</p> <ul style="list-style-type: none"> • What watershed do you live in/affect • Watershed awareness 	<ul style="list-style-type: none"> • The LCDC will work in coordination with the Livingston County Road Commission (LCRC) to install watershed signage in order to increase awareness of the watershed and the water resources located there. 	<ul style="list-style-type: none"> • Number and location of watershed signage erected. 	Install signage by Year 3 of the permit cycle.	Nothing to report in this reporting period. The schedule for the installation will be done in year 2 and the signs will be installed during year 3.
<p>#1.12: Watershed Management Short Course</p> <p>Target Audiences: Residents, commercial and industrial businesses, developers, and</p>	<ul style="list-style-type: none"> • The LCDC will assist in development, financial support, and promotion of a “Watershed Management Short Course” using resources and guidance provided by MSU Extension. 	<ul style="list-style-type: none"> • Number of participants. • Compiled results of survey presented at end of the course. • Tracking of class participants’ 	Plan and conduct class in year 1.	<ul style="list-style-type: none"> • The Livingston County Watershed Management Short Course was held on Mondays from May 16th-June 13th, and Wednesdays from September 7th- 28th. One Saturday field session was also held during each series. A total of 19 attendees took part in the short course. The topics covered

officials and employees. Key Messages: <ul style="list-style-type: none"> • What watershed do you live in/affect • Watershed awareness • Reasons for protecting a watershed • How individuals affect their watershed and what they can do to protect water resources 		involvement in implementing watershed management initiatives.		were: <ul style="list-style-type: none"> o Watershed basics o Why we manage watersheds o Field trip on electric shocking and invertebrate inventory. o People and politics o Putting it all together o Land use planning o Who does what? Roles of Gov't and organizations o Wells, wastewater and solid waste o Stormwater BMP field trip o Waterfront property management.
Required Element #2 Ultimate Storm Water Discharge Locations and Potential Impact: Educate the public on the location of residential separate storm water collection system catch basins, waters of the state where the system discharges, and the potential impacts from pollutants from the storm water drainage system.				
#2.1: Storm Drain Labeling and Door Hangers Target Audience: Residents, visitors and commercial businesses Key Messages: <ul style="list-style-type: none"> • Connection of storm water drainage systems to natural water bodies • Storm Drain Awareness • Storm water enters surface waters untreated; only storm water should enter into storm drains • Impacts of stormwater pollutants on water quality • How to keep nonpoint source pollutants out of the storm drainage system 	<ul style="list-style-type: none"> • The LCDC will utilize volunteers to assist in affixing labels to storm drains with the message “Don’t Pollute – Flows to Waterways” along streets where storm drains are located. • Flyers will be distributed to residential units explaining the connection of storm drains to local waterways and the impacts of nonpoint source pollutants reaching waterways through runoff collected in storm drains. 	<ul style="list-style-type: none"> • Number and location of storm drains labeled. • Number of flyers distributed. • Number of volunteers to help with efforts. • Message indicated on storm drain markers. 	Start in Year 1; on-going throughout permit cycle.	<ul style="list-style-type: none"> • The LCDC has ordered 1,000 storm drain markers with messages such as “No dumping – Drains to wetlands”, “No dumping – Drains to streams”, “No dumping – Drains to lakes”, “Don’t pollute – Flows to waterways”, and “Only rain – Down the storm drain”. • The LCDC will utilize volunteers during the second year to affix the labels to storm drains and to distribute storm drain awareness door hangers around Livingston County.

#1.1: Southeast Michigan Partners for Clean Water Informational Materials	See Above	See Above	See Above	See Above
#1.2: Community Watershed Calendar	“	“	“	“
#1.3: Southeast Michigan Partners for Clean Water Mass Media Efforts	“	“	“	“
#1.4: Information in Lake Association Newsletters	“	“	“	“
#1.5: Website Information	“	“	“	“
#1.6: Cable Access/Community Billboard	“	“	“	“
#1.7: Newspaper Advertisements	“	“	“	“
#1.8: Water Quality Displays	“	“	“	“
#1.12 Watershed Management Short Course	“	“	“	“
Required Element #3				
Public Reporting of Illicit Discharges:				
Encourage public reporting of the presence of illicit discharges or improper disposal of materials into the separate storm water drainage systems.				
#3.1: Implement and Promote a County-wide Complaint Tracking and Response System Target Audiences: Residents, visitors, commercial and industrial businesses, local government officials and employees Key Messages: <ul style="list-style-type: none"> Public reporting of illicit discharges 	<ul style="list-style-type: none"> The LCDC currently has a link on their website to report illicit discharges associated with soil erosion and sedimentation at construction sites, as well as other illicit discharges such as dumping or failing OSDS. Promotion of the “illicit discharge reporting hotline” will occur through newsletters, cable TV, and the LCDC website. 	<ul style="list-style-type: none"> Results of tracking and response system (number of reported incidents and follow-up activities). Reduction in illegal dumping incidents. Report on promotion efforts of complaint system. 	Complete in Year 2; on-going promotion throughout permit cycle.	<ul style="list-style-type: none"> The LCDC has a link on their website to report illicit discharges. The LCDC is currently working on a tracking system for calls received on illicit discharges. The system along with a hotline for residents to call when they see an illicit discharge will be completed during the 2nd year.
#1.1: Southeast Michigan Partners for Clean Water Informational Materials	See Above	See Above	See Above	See Above

#1.2: Community Watershed Calendar	“	“	“	“
#1.3: Southeast Michigan Partners for Clean Water Mass Media Efforts	“	“	“	“
#1.4: Information in Lake Association Newsletters Target Audience: Residents Key Messages: <ul style="list-style-type: none"> • What is an illicit discharge? • How to report an illicit discharge • Impacts of illicit discharges and improper waste disposal on water quality • How to identify failing OSDS • Penalties and consequences associated with illicit discharges and improper waste disposal 	“	“	“	“
#1.5: Website Information Target Audiences: Residents, visitors, public employees, businesses, industries, construction contractors, and developers. Key Messages: <ul style="list-style-type: none"> • What is an illicit discharge? • How to report an illicit discharge • Impacts of illicit discharges and improper 	“	“	“	<ul style="list-style-type: none"> • A link to the Livingston County Department of Public Health’s (LCDPH) website on proper on-site septic disposal systems operation and maintenance is on the LCDC storm water website.

<p>waste disposal on water quality</p> <ul style="list-style-type: none"> • How to identify failing OSDS • Penalties and consequences associated with illicit discharges and improper waste disposal 				
<p>#1.6: Cable Access/Community Billboard</p> <p>Target Audiences: Residents, visitors, public employees, businesses, industries, construction contractors, and developers.</p> <p>Key Messages:</p> <ul style="list-style-type: none"> • What is an illicit discharge? • How to report an illicit discharge • Impacts of illicit discharges and improper waste disposal on water quality • How to identify failing OSDS • Penalties and consequences associated with illicit discharges and improper waste disposal 	“	“	“	See Above
<p>#1.7: Newspaper Advertisements</p>	“	“	“	“
<p>#1.8: Water Quality Displays</p> <p>Target Audiences: Residents, visitors, public employees,</p>	“	“	“	“

<p>businesses, industries, construction contractors, and developers.</p> <p>Key Messages:</p> <ul style="list-style-type: none"> • What is an illicit discharge? • How to report an illicit discharge • Impacts of illicit discharges and improper waste disposal on water quality • How to identify failing OSDS • Penalties and consequences associated with illicit discharges and improper waste disposal 				
<p>#1.9: Promotion of Water Resource Protection Workshops</p> <p>Target Audiences: Residents, visitors, public employees, businesses, industries, construction contractors, and developers.</p> <p>Key Messages:</p> <ul style="list-style-type: none"> • What is an illicit discharge? • How to report an illicit discharge • Impacts of illicit discharges and improper waste disposal on water quality • How to identify failing OSDS 	“	“	“	“

<ul style="list-style-type: none"> Penalties and consequences associated with illicit discharges and improper waste disposal 				
#1.12: Watershed Management Short Course	“	“	“	“
#2.1: Storm Drain Labeling and Door Hangers	“	“	“	“
Required Element #4 Personal Actions that can Impact the Watershed: Educate the public on the need to minimize the amount of residential, or non-commercial, wastes washed into nearby storm water conveyances (including activities related to car, pavement or power washing; the acceptable application and disposal of pesticides and fertilizers; and the effects caused by grass clippings, leaf litter, and animal wastes that are transported into areas waterways).				
#4.1: Promote Soil Testing Target Audience: Residents, public employees, and businesses Key Messages: <ul style="list-style-type: none"> Reduce the use of unnecessary fertilizers 	<ul style="list-style-type: none"> The LCDC will work with the MSU-Extension office and HRWC to encourage property owners to perform soil testing to avoid unnecessary fertilizer applications. Literature will be disseminated through flyers, advertisements, at public events, etc. 	<ul style="list-style-type: none"> Number of promotional flyers distributed on how and why to have soil tested available to the public at retail stores that sell fertilizers. Locations/events where flyers were distributed. Number of local newspaper advertisements that encourage soil testing. Number of coupons redeemed for low to no-phosphorus fertilizers. 	Begin in Year 1; on-going throughout permit cycle.	<ul style="list-style-type: none"> Soil testing brochures were distributed to attendees at the Livingston County Homeshow at the LCDC’s water quality display booth on April 1st-3rd. Roughly 12 brochures were distributed. Soil testing brochures were available at the LCDC front counter on March 11, 2005. Roughly 20 brochures were distributed.
#1.1: Southeast Michigan Partners for Clean Water Informational Materials Target Audience: Residents, public employees, and businesses Key Messages: <ul style="list-style-type: none"> Environmental impacts and Best Management Practices (BMPs) 	See Above	See Above	See Above	See Above

<p>associated with:</p> <ul style="list-style-type: none"> ○ Car, pavement, and/or power washing (preferred cleaning materials and practices) ○ Pesticide and fertilizer use and disposal ○ Proper management of yard and animal wastes ○ Native vegetation on residential properties as an alternative to turf grass <ul style="list-style-type: none"> ● Effects of residential wastes on water quality 				
<p>#1.2: Community Watershed Calendar</p>	<p>“</p>	<p>“</p>	<p>“</p>	<p>“</p>
<p>#1.3: Southeast Michigan Partners for Clean Water Mass Media Efforts</p>	<p>“</p>	<p>“</p>	<p>“</p>	<p>“</p>
<p>#1.4: Information in Lake Association Newsletters</p> <p>Target Audience: Residents</p> <p>Key Messages:</p> <ul style="list-style-type: none"> ● Environmental impacts and Best Management Practices (BMPs) associated with: <ul style="list-style-type: none"> ○ Car, pavement, and/or power washing (preferred cleaning materials and practices) ○ Pesticide and fertilizer use and 	<p>“</p>	<p>“</p>	<p>“</p>	<p>“</p>

<ul style="list-style-type: none"> disposal ○ Proper management of yard and animal wastes ○ Native vegetation on residential properties as an alternative to turf grass ● Effects of residential wastes on water quality 				
<p>#1.5: Website Information</p> <p>Target Audience: Residents, public employees, and businesses</p> <p>Key Messages:</p> <ul style="list-style-type: none"> ● Environmental impacts and Best Management Practices (BMPs) associated with: <ul style="list-style-type: none"> ○ Car, pavement, and/or power washing (preferred cleaning materials and practices) ○ Pesticide and fertilizer use and disposal ○ Proper management of yard and animal wastes ○ Native vegetation on residential properties as an alternative to turf grass ● Effects of residential wastes on water quality 	“	“	“	“
<p>#1.6: Cable</p>	“	“	“	“

Access/Community Billboard				
#1.7: Newspaper Advertisements	“	“	“	“
#1.8: Water Quality Displays Target Audiences: Residents, visitors, public employees, businesses, industries, construction contractors, and developers. Key Messages: <ul style="list-style-type: none"> • Environmental impacts and Best Management Practices (BMPs) associated with: <ul style="list-style-type: none"> ○ Car, pavement, and/or power washing (preferred cleaning materials and practices) ○ Pesticide and fertilizer use and disposal ○ Proper management of yard and animal wastes ○ Native vegetation on residential properties as an alternative to turf grass • Effects of residential wastes on water quality 	“	“	“	<ul style="list-style-type: none"> • The LCDC offered a one-day Compost bin discounted sale on April 16, 2005. <ul style="list-style-type: none"> ○ The cost for the compost bins were \$20 and residents in Livingston County could come to two locations and purchase an unlimited amount of bins. ○ The sale was advertised through radio PSAs, newspaper briefs and inserts and flyers that were distributed to all city village, and township halls as well as county buildings and the VG’s grocery store in Brighton. ○ 3500 compost bins were distributed to Livingston residents throughout the event. ○ Newspaper articles on the event can be found in Attachment 4 of the annual report. ○ Compost Bin event flyer can be found in Attachment 5 of the annual report.
#1.9: Promotion of Water Resource Protection Workshops	“	“	“	“
Target Audiences: Residents,				

<p>visitors, public employees, businesses, industries, construction contractors, and developers.</p> <p>Key Messages:</p> <ul style="list-style-type: none"> • Environmental impacts and Best Management Practices (BMPs) associated with: <ul style="list-style-type: none"> ○ Car, pavement, and/or power washing (preferred cleaning materials and practices) ○ Pesticide and fertilizer use and disposal ○ Proper management of yard and animal wastes ○ Native vegetation on residential properties as an alternative to turf grass • Effects of residential wastes on water quality 				
<p>#2.1: Storm Drain Labeling and Door Hangers</p>	<p>“</p>	<p>“</p>	<p>“</p>	<p>“</p>
<p>Required Element #5 Waste Management Assistance: Educate the public on the availability, location and requirements of facilities for disposal or drop-off of household hazardous wastes, travel trailer sanitary wastes, chemicals, yard wastes, and motor vehicle fluids.</p>				
<p>#1.1: Southeast Michigan Partners for Clean Water Informational Materials</p> <p>Target Audience: Residents, businesses, public employees,</p>	<p>See Above</p>	<p>See Above</p>	<p>See Above</p>	<ul style="list-style-type: none"> • The LCDC through our Solid Waste program offered 5 household hazardous waste collection days in 2005. The dates were: April 23, May 17, July 30, August 23 and October 22. A copy of the calendar can be found in Attachment 6 of the annual report.

<p>industries and institutions</p> <p>Key Messages:</p> <ul style="list-style-type: none"> • Identification of household hazardous wastes and available alternatives • Disposal locations, requirements, and availability for: <ul style="list-style-type: none"> ○ Household hazardous wastes and other chemicals ○ Motor vehicle fluids ○ Travel trailer sanitary wastes ○ Recreational boating wastes ○ Yard wastes 				<ul style="list-style-type: none"> ○ Approximately 9,000 gallons of batteries were recycled in 2005. ○ Sharps disposal was added as an acceptable material at our HHW collections. ○ Ink jet cartridges and cell phones were also recycled at this event. ○ Approximately 500 Livingston County residents used the HHW program in 2005. ○ The HHW collection days are advertised at our LCDC front desk, flyers that are up in township, village and city halls, newspaper PSAs and on our website. • The LCDC Waste reduction guide is available at co.Livingston.mi.us/solidwaste. The waste reduction guide is currently being updated and will be printed for distribution when completed. • The LCDC through our solid waste program offered “Solid waste challenge grants” in 2005. These grants are offered to local units of government to assist with costs associated with spring cleanup programs and long-term waste reduction programs. 8 spring cleanups, 1 electronics collection, and 2 long-term programs were conducted with grant match funds in 2005.
<p>#1.2: Community Watershed Calendar</p>	<p>“</p>	<p>“</p>	<p>“</p>	<p>See Above</p>
<p>#1.3: Southeast Michigan Partners for Clean Water Mass Media Efforts</p>	<p>“</p>	<p>“</p>	<p>“</p>	<p>“</p>
<p>#1.4: Information in Lake Association Newsletters</p> <p>Target Audience: Residents, businesses, public employees, industries and institutions</p> <p>Key Messages:</p> <ul style="list-style-type: none"> • Identification of household hazardous wastes and available alternatives 	<p>“</p>	<p>“</p>	<p>“</p>	<ul style="list-style-type: none"> • The LCDC Household Hazardous Waste Collection calendar was printed in the May 2005 LCDC newsletters sent to Thompson, Cedar and Tyrone lake residents. The LCDC solid waste website was also published in the newsletters.

<ul style="list-style-type: none"> • Disposal locations, requirements, and availability for: <ul style="list-style-type: none"> ○ Household hazardous wastes and other chemicals ○ Motor vehicle fluids ○ Travel trailer sanitary wastes ○ Recreational boating wastes ○ Yard wastes 				
<p>#1.5: Website Information</p> <p>Target Audience: Residents, businesses, public employees, industries and institutions</p> <p>Key Messages:</p> <ul style="list-style-type: none"> • Identification of household hazardous wastes and available alternatives • Disposal locations, requirements, and availability for: <ul style="list-style-type: none"> ○ Household hazardous wastes and other chemicals ○ Motor vehicle fluids ○ Travel trailer sanitary wastes ○ Recreational boating wastes ○ Yard wastes 	“	“	“	<ul style="list-style-type: none"> • A link to the LCDC’s Solid Waste Management Department and the available dates, times, and locations for Livingston County residents to drop off qualifying household hazardous waste was included on the LCDC website. <ul style="list-style-type: none"> ○ 4,027 Solid Waste website hits were recorded for this reporting period.
<p>#1.6: Cable Access/Community Billboard</p>	“	“	“	<ul style="list-style-type: none"> • The Hartland Township local cable channel aired numerous LCDC PSA’s on proper household hazardous waste disposal and the LCDC calendar for HHW collections.
<p>#1.7: Newspaper</p>	“	“	“	See Above

<p>Advertisements</p> <p>#1.8: Water Quality Displays</p> <p>Target Audience: Residents, businesses, public employees, industries and institutions</p> <p>Key Messages:</p> <ul style="list-style-type: none"> • Identification of household hazardous wastes and available alternatives • Disposal locations, requirements, and availability for: <ul style="list-style-type: none"> ○ Household hazardous wastes and other chemicals ○ Motor vehicle fluids ○ Travel trailer sanitary wastes ○ Recreational boating wastes ○ Yard wastes 	<p>“</p>	<p>“</p>	<p>“</p>	<ul style="list-style-type: none"> • A poster detailing the available dates, times and locations for Livingston County residents to drop off qualifying household hazardous waste was included on water quality display. • A copy of the poster is included in Attachment 6.
<p>#1.9: Promotion of Water Resource Protection Workshops</p> <p>Target Audience: Residents, businesses, public employees, industries and institutions</p> <p>Key Messages:</p> <ul style="list-style-type: none"> • Identification of household hazardous wastes and available alternatives • Disposal locations, requirements, and availability for: 	<p>“</p>	<p>“</p>	<p>“</p>	<ul style="list-style-type: none"> • Erin Daksiewicz of the LCDC’s Solid Waste Management Department gave a talk at the Livingston County Watershed Management Short Course on September 21st regarding the dates, times and locations for Livingston County residents to drop off qualifying household hazardous waste. • Matt Bolang of the LCDPH gave a talk at the Livingston County Watershed Management Short Course on September 21st regarding septic systems and sewers, groundwater and well maintenance. <ul style="list-style-type: none"> ○ 19 people were in attendance at this workshop session.

<ul style="list-style-type: none"> ○ Household hazardous wastes and other chemicals ○ Motor vehicle fluids ○ Travel trailer sanitary wastes ○ Recreational boating wastes ○ Yard wastes 				
# 1.12: Watershed Management Short Course	“	“	“	See Above
#4.1: Promote soil testing	“	“	“	“
Required Element #6 Riparian Land Management: Educate the public regarding management of riparian lands to protect water quality.				
#6.1: Riparian Land Management Brochures Target Audience: Riparian landowners, realtors, developers, engineering firms, recreational users, lawn care companies, and landscapers Key Messages: <ul style="list-style-type: none"> • Importance of riparian corridors for water quality and habitat protection/enhancement • BMPs for riparian lands: <ul style="list-style-type: none"> ○ Protection through the use of conservation easements ○ Lawn maintenance for water quality protection ○ Landscaping for water quality ○ Shoreline 	<ul style="list-style-type: none"> • The brochure will promote riparian BMPs with an emphasis on landscaping with native plants, buffer zones, and minimizing impervious surfaces to facilitate on-site water retention/infiltration to riparian landowners, realtors, developers, engineering firms, recreational users, lawn care companies, and landscapers. • The brochures will be distributed by realtors, nursery/garden retail businesses, and will be available at township offices and distributed by government officials and employees who work with riparian landowners. 	<ul style="list-style-type: none"> • Number of brochures distributed and messages conveyed. 	Brochure available in Year 3.	<ul style="list-style-type: none"> • A total of 92 “Landscaping for Water Quality” booklets, published by the Center for Environmental Studies, were distributed throughout the year at the LCDC front counter and local events.

stabilization techniques <ul style="list-style-type: none"> ○ Proper septic system maintenance ○ Proper management of lawn, garden and animal wastes 				
#1.1: Southeast Michigan Partners for Clean Water Informational Materials Target Audience: Residents, riparian landowners, realtors, developers, engineering firms, recreational users, lawn care companies, and landscapers Key Messages: <ul style="list-style-type: none"> • Importance of riparian corridors for water quality and habitat protection/enhancement • BMPs for riparian lands 	See Above	See Above	See Above	See Above
#1.2: Community Watershed Calendar	“	“	“	“
#1.3: Southeast Michigan Partners for Clean Water Mass Media Efforts	“	“	“	“
#1.4: Information in Lake Association Newsletters Target Audience: Residents, riparian landowners, realtors, developers, engineering firms, recreational users, lawn care companies, and landscapers Key Messages: <ul style="list-style-type: none"> • Importance of riparian corridors for water 	“	“	“	“

quality and habitat protection/enhancement • BMPs for riparian lands				
#1.5: Website Information Target Audience: Residents, riparian landowners, realtors, developers, engineering firms, recreational users, lawn care companies, and landscapers Key Messages: • Importance of riparian corridors for water quality and habitat protection/enhancement • BMPs for riparian lands	“	“	“	“
#1.6: Cable Access/Community Billboard	“	“	“	“
#1.7: Newspaper Advertisements	“	“	“	“
#1.8: Water Quality Displays Target Audience: Residents, riparian landowners, realtors, developers, engineering firms, recreational users, lawn care companies, and landscapers Key Messages: • Importance of riparian corridors for water quality and habitat protection/enhancement • BMPs for riparian lands	“	“	“	“
#4.1: Promote Soil Testing	“	“	“	“

Public Participation Plan (PPP) Progress

The purpose of the PPP is to facilitate the involvement of watershed jurisdictions, agencies, organizations, and the general public in the development of the WMP, with a particular emphasis on involving those with the authority, ability, and desire to bring about the necessary change by developing and implementing the USR and the HCOL WMP.

The activities that have been completed in this reporting period as it relates to the PPP submitted on behalf of the USR and the HCOL subwatershed groups, as well as the method of implementation, method of measuring progress, action taken and schedule are summarized in Table 2 below.

Table 2 Summary of Public Participation Plan Activities

Public Participation Activity	Method of Implementation	Methods of Measuring Progress	Schedule	Action Taken
E-mail Distribution Lists	Email List-serves were developed to include a cross-section of interested parties to receive information associated with the USR and the HCOL watershed planning efforts.	<ul style="list-style-type: none"> • Copy of stakeholder email list. • Number of meetings held and subsequent notices sent to publicize the meetings. 	On-going	<ul style="list-style-type: none"> • Email notices were sent to stakeholders to announce all three public meetings for the USR and the HCOL watershed management planning efforts. Notices were sent at least a week in advance of each public meeting. All stakeholders that received e-mail notification are included in Appendix K of the USR WMP and Appendix H in the HCOL WMP. • All meeting minutes from the Livingston County Phase II permit effort watershed group meetings as well as the public meeting minutes were distributed via email to stakeholders. Those minutes are included in Appendices L and N of the USR WMP and in Attachment 7 of the annual report.
Press Releases	Press releases will be used throughout the watershed management planning process. Other press releases will advertise public involvement opportunities such as volunteer events, river day events, or special sales drives.	<ul style="list-style-type: none"> • Number of press releases on the Phase II storm water efforts or other applicable issues associated with the Phase II program. 	On-going	<ul style="list-style-type: none"> • On March 3, 2005, Livingston County Press and Argus printed an article "River Day coming to Howell June 11." Explaining the purpose of the event and activities that were taking place. • On May 3, 2005 Detroit News printed an article "The water's not fine – some sewage is gone, but Rouge River is on a slow track to recovery". Becky Simpson, Water resource coordinator for Livingston County, was shown in the article conducting a dry weather screening

				<p>investigation on outfalls in the rouge river.</p> <ul style="list-style-type: none"> • On August 26, 2005 the Livingston County Press and Argus printed a press release “Watershed meeting set for Wednesday”, explaining where, when, time and what topics will be covered at our USR watershed meeting on August 31, 2005. • On August 29, 2005 the Detroit News printed a press release “Public hearing will focus on Shiawassee River issues” explaining the importance of watersheds, problems pollutants cause in the watershed and where the USR watershed meeting will be held to hear more of what residents can do to help with the problem. • On June 2, 2005 the Detroit News “Waterfest educates County residents”. • On June 8, 2005 Livingston County Press & Argus “Livingston Clean Waterfest on tap”. • On June 9, 2005 Livingston County Press & Argus “Eco-friendly event slated for weekend”. • On April 18, 2005 the Livingston County Press and Argus printed a press release “Hundreds get caught up in compost craze”, describing the LCDC compost bin event that took place on April 16. • On April 21, 2005 the Livingston County Press and Argus wrote an editorial “Sale of compost bins proves to be a success” congratulating the LCDC for the compost bin sale.
Announcement/Updates	Announcements/updates made to Local Boards, Associations, and other Interested Parties regarding upcoming workshops, training opportunities, upcoming meetings, upcoming public events, etc.	<ul style="list-style-type: none"> • Types of activities/announcement sent to stakeholders regarding Phase II-related programs. 	On-going	<ul style="list-style-type: none"> • E-mails were sent out to all stakeholders to announce the 4 public meetings for the USR and HCOL watershed groups. • LCDC sent e-mails to our lakes associations informing them of the MSU Extension Watershed Management Short Course. • Invitations will be sent out to planners, supervisors and zoning administrators in every city, township and village in Livingston County inviting them to our Stormwater presentation to be held on November 9, 2005.
Newsletter Articles	Articles in local newsletters or flyers in utility bill mailings that were published to communicate Phase II-related	<ul style="list-style-type: none"> • Types of information published in newsletter articles. • Copies of 	On-going	<ul style="list-style-type: none"> • The LCDC published 1,200 newsletters for residents on Thompson Lake, Tyrone Lake and Cedar Lake in May and October 2005. These newsletters contained tips on: <ul style="list-style-type: none"> ○ Fertilize sparingly

	activities/information.	newsletters/news-letter articles.		<ul style="list-style-type: none"> ○ Watershed Awareness ○ Illicit Discharge Detection and Reporting ○ Washing cars on grass or at a car wash ○ Not over-watering lawns ○ Household Hazardous waste disposal ● The LCDC May 2005 Lake Newsletters can be found in Attachment 1.
Public Meetings/ Watershed Group Meetings	Three public meetings throughout the development of the USR/HCOL watershed planning process are to be held to educate stakeholders about the initiatives and to solicit their input and interest in participating in Phase II-related activities.	<ul style="list-style-type: none"> ● Details on the date, time and location of the public meetings. ● Summary of the details of each public meeting (meeting minutes). 	Complete public meetings in Year 1; Watershed Group Meetings On-going	<ul style="list-style-type: none"> ● The USR watershed public meetings were held on: <ul style="list-style-type: none"> ○ October 13, 2004 ○ May 4, 2005 ○ August 31, 2005 ● The HCOL watershed public meetings were held on: <ul style="list-style-type: none"> ○ October 13, 2004 ○ May 25, 2005 ○ September 20, 2005 ● These meetings were publicized by: <ul style="list-style-type: none"> ○ Notice on WHMI 93.5 Livingston County Radio Station ○ Notice posted on County Buildings ○ Notices available at the counter in the LCDC office ○ Notice printed in the following newspapers: Livingston County Press and Argus and Detroit News ○ Notice posted on LCDC website ● Minutes from the USR public meetings can be found in Appendix L of the USR WMP. ● Minutes from the HCOL public meetings can be found in Appendix I for the HCOL WMP.
Website	A central website will be developed and hosted by the LCDC's office. This mechanism will be referred to in all announcements and press releases. It will allow stakeholders to find out more about the Phase II efforts, where to find additional information, and obtain copies of the USR/HCOL WMP's.	<ul style="list-style-type: none"> ● Link to website. ● Information contained on website. ● Number of website hits. 	On-going	<ul style="list-style-type: none"> ● LCDC website was made available in December of 2004 and can be accessed through: http://co.livingston.mi.us/Drain/phaseii.htm ● The LCDC website received 1,837 number of hits to its stormwater website from January 2005 to October 1, 2005. The site contains information on: <ul style="list-style-type: none"> ○ Watershed awareness ○ NPDES Phase II storm water program. ○ Advertisement for local watershed events and workshops ○ LCDC PEP, PIP, IDEP and 2004 annual report. ○ HCOL and USR draft watershed management

				<ul style="list-style-type: none"> plans. o Links to various environmental organizations and informational websites. o Link to the LCDC solid waste website for tips on household hazardous waste disposal. • LCDC Website has a link to SEMCOG’s website, which receives an average of 5,000 hits per month on their Seven Simple Steps for Clean Water.
Surveys	The LCDC office will contract with the Southeast Michigan Council of Governments (SEMCOG) to conduct a public survey that would be statistically significant for the USR and the HCOL watersheds. The survey will assess: public awareness, perception, and knowledge of watersheds and stormwater pollution issues; current activities impacting water resources; willingness to take action to protect water resources; and mechanisms to best receive information.	<ul style="list-style-type: none"> • Results of the survey. 	Periodically; possibly on a 5-year basis.	<ul style="list-style-type: none"> • The results of the survey were distributed in June 2004. The full details on the USR results can be found in Appendix O of the USR WMP.
Major Public Events	Local public events, such as festivals, parades, and expos provide an opportunity for educating residents about watershed planning and nonpoint source pollution prevention and also encouraging citizen involvement and stewardship. The LCDC will develop a portable display that may be borrowed by local communities for display at such events. This display is modular, allowing communities to add information about issues and actions related to watershed planning and stormwater	<ul style="list-style-type: none"> • Type of events attended to share Phase II stormwater management information. • Types of information presented on the portable display. 	On-going	<ul style="list-style-type: none"> • The LCDC sponsored a booth at the Livingston County Homeshow on April 1-3, 2005. Members of the LCDC, Green Oak Twp, Marion Twp, the Red Cedar Watershed, HRC, etc manned the booth. Information on the 7 Simple Steps to Clean Water and Household Hazardous Waste drop-off dates and times, were displayed and brochures/flyers were available for pickup. The following materials were picked up by visitors: <ul style="list-style-type: none"> o 39 SEMCOG “Seven Simple Steps to Clean Water” brochures. o 3 SEMCOG “Remember, you’re not just walking the dog” tip cards. o 4 SEMCOG “Remember, it ALL drains to our lakes and rivers” tip cards. o 10 SEMCOG “Remember, you’re not just fertilizing your lawn” tip cards.

	management specific to their community.		<ul style="list-style-type: none"> ○ 6 SEMCOG “Remember, you’re not just washing your car” tip cards. ○ 10 MSU Extension “Don’t guess Soil Test” brochures. ○ 20 “Livingston Clean Waterfest” Brochures. ○ 39 CES “Landscaping for water quality” brochures. ○ 33 DEQ “Practical Tips for home and yard” flyers. ○ 14 HRWC “Lawn and Garden” brochures. ○ 9 HRWC “Decks and Lumber” brochures. ○ 3 HRWC “automotive care” brochures. ○ Registration for a free give-away and details on where to purchase composting bins being offered at a reduced rate through the LCDC’s office were available at the booth, which drew in a lot of interested visitors. ● The LCDC sponsored a booth at “In your own backyard” show. Our booth promoted the Livingston Clean Waterfest, MSU Extension soil test, LCDC compost bin sale, MSE Extension Watershed short course, and the household hazardous waste disposal calendar. The following materials were picked up by visitors: <ul style="list-style-type: none"> ○ 19 SEMCOG “7 simple steps to clean water” ○ 19 SEMCOG “Fertilize sparingly and caringly” ○ 19 SEMCOG “Help keep pollution out of the storm drains” ○ 19 SEMCOG “Clean up after your pet” ○ 19 SEMCOG “Good car care” ● Livingston County Drain Commissioner hosted the first annual “Livingston Clean Waterfest” on June 11, 2005 at the City of Howell Park. Approximately 300 residents attended the event on watershed awareness and participated in environmental activities. The following details how the event was advertised, who participated and what activities were held throughout the day. <ul style="list-style-type: none"> ○ Advertisements <ul style="list-style-type: none"> ❖ Waterfest commercial was played on Hartland twp. And the city of Howell cable. ❖ 50 Posters were put on county buildings, city buildings, township halls and local businesses. ❖ WHMI 93.5, the local radio station announced
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				<p>the event and played an interview with Becky Simpson many times before the event.</p> <ul style="list-style-type: none"> ❖ Event guides were sent to the board of commissioners, township halls, county buildings, city buildings and approximately 6,800 flyers were sent to students in elementary schools in the area. The copy of the event guide can be found in Attachment 8 of the annual report. ❖ Four newspaper articles announced the event. June 2, 2005 the Detroit News “Waterfest educates County residents”, March 3, 2005 Livingston County Press & Argus “River Day coming to Howell June 11”, June 8, 2005 Livingston County Press & Argus “Livingston Clean Waterfest on tap” and June 9, 2005 Livingston County Press & Argus “Eco-friendly event slated for weekend”. These articles can be found in Attachment 9 of the annual report. ❖ Livingston Clean Waterfest ad was printed in the three LCDC Lake Newsletters in May 2005. <ul style="list-style-type: none"> o Activities <ul style="list-style-type: none"> ❖ Tour of wastewater treatment plant ❖ Tour of Brighton Recreational area ❖ Tour of MHOG, water treatment plant ❖ Fishing tournament ❖ Fish Printing ❖ Face painting ❖ Dunk tank ❖ Casting lessons ❖ Balloon clown ❖ Free lunch and T-shirts o Booths <ul style="list-style-type: none"> ❖ Crossroads – Sierra club ❖ Southeast MI Land Conservancy ❖ Livingston Land Conservancy ❖ MSUE ❖ Ducks Unlimited ❖ MDEQ
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				<ul style="list-style-type: none"> ❖ Livingston DPW ❖ HRWC ❖ Livingston Conservation District ❖ Michigan Lakes and Streams ❖ LCDC ❖ City of Howell DPW ❖ Woolly Buggers Fly fishing group <ul style="list-style-type: none"> • The LCDC offered a one-day Compost bin discounted sale on April 16, 2005. <ul style="list-style-type: none"> o The cost for the compost bins were \$20 and residents in Livingston County could come to two locations and purchase an unlimited amount of bins. o The sale was advertised through radio PSAs, newspaper briefs and inserts and flyers that were distributed to all city village, and township halls as well as county buildings and the VG's grocery store in Brighton. o 3500 compost bins were distributed to Livingston residents throughout the event. o Newspaper articles on the event can be found in Attachment 4 of the annual report. o Compost Bin event flyer can be found in Attachment 5 of the annual report.
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Illicit Discharge Elimination Plan (IDEP) Progress

The purpose of the IDEP is a program that is designed to prohibit and effectively eliminate illicit discharges and connections, including the discharge of sanitary wastewater, to the LCDC's separate storm water drainage system (which includes both open and enclosed drainage systems).

The activities that have been scheduled to begin, or be completed in this reporting period as it relates to the LCDC's IDEP, as well as the method of implementation, method of measuring progress, action taken and schedule are summarized in Table 3 below.

Table 3 Summary of Illicit Discharge Elimination Plan Activities

BMP Activity (Task #)	Method of Implementation	Methods of Measuring Progress	Schedule	Action Taken
Required Element #1				
Program for the Identification and Elimination of Illicit Discharges/Connections Found During Dry Weather Screening Activities				
#1.1: Review existing legal authority to implement the IDEP.	<ul style="list-style-type: none"> LCDC will conduct a thorough review of its existing legal authority to find, track and eliminate illicit connections. 	<ul style="list-style-type: none"> Documentation of review and written recommendations. 	Review complete in 1 st year.	<ul style="list-style-type: none"> The LCDC has legal authority to implement the IDEP through Act 40 of 1956, which is written out in chapter 18 of the Drain code.
#1.3: Develop a complaint receipt and response system.	<ul style="list-style-type: none"> The LCDC will work with the LCDPH to develop a County-wide system to receive and track complaints regarding storm water, construction site and OSDS issues in the County. The LCDC will advertise the complain system telephone number and e-mail address through posters, mailings, web sites, etc. 	<ul style="list-style-type: none"> Documentation of complaint system telephone number/web link. # of complaints received and action taken. 	Complete in 1 st year.	<ul style="list-style-type: none"> The LCDC has an online complaint system for reporting illicit discharges, soil erosion and drainage issues online at: http://co.livingston.mi.us/drain/complaint1.htm. The LCDC is currently working on a tracking system for calls received on illicit discharges. The system along with a hotline for residents to call when they see an illicit discharge will be completed during the 2nd year.
#1.4: Review existing water quality data for drains and water bodies in the County.	<ul style="list-style-type: none"> Available water quality data will be reviewed to aid in prioritizing outfall inspection priority actions and tracking progress for the IDEP. 	<ul style="list-style-type: none"> Documentation of review—summary of known information. 	Complete in 1 st year.	<ul style="list-style-type: none"> The water quality data for drains and waterbodies in the HCOL can be found in chapter 3 in the HCOL WMP. The water quality data for drains and waterbodies in the USR can be found in chapters 1 and 4 in the USP WMP.

<p>#1.5: Develop a priority schedule for inspection of the LCDC drains and outfalls.</p>	<ul style="list-style-type: none"> The LCDC will use the date review (Task 1.4), knowledge of problem areas, existing work/inspection schedule, location of urbanized areas and other criteria to prioritize the inspection of the LCDC drains and outfalls. 	<ul style="list-style-type: none"> A written inspection schedule 	<p>Complete prioritization in 1st year.</p>	<ul style="list-style-type: none"> The LCDC prioritized all of the outfall inspections into a 5-year calendar. This calendar can be found in Attachment 10 of this annual report.
<p>#1.6: Visual dry-weather inspection of storm water outfalls at County-owned facilities/offices, follow-up investigation and correction of any problems.</p>	<ul style="list-style-type: none"> Perform dry-weather screening of known point source stormwater discharges at LCDC-owned outfalls. 	<ul style="list-style-type: none"> # of outfalls inspected. Copies of inspection records. Summary of findings. # of illicit detected. # of illicit corrected. 	<p>Complete inspections and corrections in 2nd year; repeat inspections every 5 years (or other appropriate schedule approved by MDEQ) on point source outfalls.</p>	<ul style="list-style-type: none"> The LCDC will be starting dry-weather inspections of all County-owned offices/facilities this fall. A follow-up investigation and correction of any problems will take place were necessary.
<p>#1.7: Investigate the feasibility of coordinating the drainage system and outfall inspection efforts of the other agencies and the local communities in the County.</p>	<ul style="list-style-type: none"> The LCDC will meet with the local communities and other appropriate agencies to attempt to coordinate drain and outfall inspections in an effort to eliminate duplication, reduce costs and provide consistency. 	<ul style="list-style-type: none"> Meeting minutes, conclusions and recommendations 	<p>Complete in 1st year.</p>	<ul style="list-style-type: none"> The LCDC talked with the Phase II communities on assisting them with their dry-weather screening. There has not been any interest shown to this date of communities wanting to coordinate the dry-weather screening. Meeting minutes along with the associated cost of dry-weather screening can be found in Attachment 11 of this annual report.
<p>#1.8: Provide training to appropriate LCDC staff on illicit connections and discharges, including failed OSDS, safety issues and naturally occurring phenomenon. Determine the feasibility of coordinating this training with other agencies (LCDC, LCRC, LCDPH, etc.) and local communities in the</p>	<ul style="list-style-type: none"> Attendance at training sessions offered through Wayne County Department of Environment (WDOE), MDEQ, sponsored by municipality, etc. Viewing of training videos 	<ul style="list-style-type: none"> # of attendees at training sessions. Copies of training certificates. Documentation of videos aired and frequency of airing. Copies of meeting minutes. Copies of training records. 	<p>Complete in 1st year.</p>	<ul style="list-style-type: none"> Four staff members attended the IDEP training session offered by the WDOE on May 23, 2005. Copies of training certificates are included in Attachment 12 of this annual report.

County.				
#1.13: Notify proper jurisdictions of illicit discharges or connections found by LCDC staff.	<ul style="list-style-type: none"> Any illicit connections/discharges found outside of a LCDC's jurisdiction will be referred to the proper jurisdiction for follow-up actions. 	<ul style="list-style-type: none"> Document of referrals. 	On-going.	<ul style="list-style-type: none"> The LCDC has not found any illicit discharges or connections at this time. If and when the LCDC staff notices an illicit discharge or connection that is not under our jurisdiction, the proper owner or agency with jurisdiction will be notified.
Required Element #2:				
Minimize infiltration of seepage from sanitary sewers and on-site sewage disposal systems into the separate storm water drainage system.				
#2.1: Encourage the use of the existing OSDS complaint tracking system.	<ul style="list-style-type: none"> The LCDC has no OSDS under its jurisdiction; however, LCDC will ensure that there is a program (see task 1.3) to encourage citizens to utilize the existing LCDPH complaint tracking system. 	<ul style="list-style-type: none"> Documentation of efforts to encourage use and records of use of the system 	Investigate building on the LCDPH complaint, tracking and response system in 1 st year.	<ul style="list-style-type: none"> The LCDC has a link on their Phase II website to the LCDPH on-site sewage disposal systems. The LCDC has an online complaint system for reporting illicit discharges, soil erosion and drainage issues online at: http://co.livingston.mi.us/drain/complaint1.htm. The LCDC is currently working on a tracking system for calls received on illicit discharges. The system along with a hotline for residents to call when they see an illicit discharge will be completed during the 2nd year. Once the new tracking system is implemented, if any OSDS complaints are received they will be automatically sent to the LCDPH for investigation.
#2.2: Work with the LCDPH and local communities on OSDS inspection program.	<ul style="list-style-type: none"> The LCDC will work with the LCDPH and local communities on developing a program whereby OSDS would be periodically inspected for failure. Participation in the evaluation of regulatory or other avenues to best accomplish this goal will be sought. 	<ul style="list-style-type: none"> Documentation of inspection mechanisms/program. 	Begin cooperative investigation in 2 nd year and make recommendations in 4 th year.	<ul style="list-style-type: none"> Currently, all new construction and repairs for OSDS are permitted through the LCDPH.
#2.3: Evaluate the integrity of the separate sanitary systems at LCDC and County facilities.	<ul style="list-style-type: none"> Evaluation of sanitary sewer system to ensure seepage into groundwater and surface water is minimized will be made through visual inspection, flow record review, sewer televising and other means, as 	<ul style="list-style-type: none"> Report of findings, corrections and/or recommendations. 	Begin evaluation and complete report in 4 th year.	<ul style="list-style-type: none"> Evaluation will begin in year 3 and complete report in the 4th year.

	appropriate.			
Required Element #3:				
Determine the effectiveness of illicit discharge elimination activities which includes an inspection schedule of each storm water point source every five years, or otherwise approved schedule.				
Combined with Requirement 1	See Above	See Above	See Above	See Above
Element #4:				
Prepare an updated drainage system map showing all known LCDC-operated outfalls and their receiving water or drainage system.				
#4.1: Investigate the use of hand-held Global Positioning System (GPS) equipment in mapping and tracking efforts.	<ul style="list-style-type: none"> The LCDC may use GPS monitors to more effectively locate, track and record information tabulated during the mapping and inspection of conveyances, outfalls, OSDS and other problem areas. 	<ul style="list-style-type: none"> Documentation of the use of GPS. 	Complete in 1 st year.	<ul style="list-style-type: none"> The LCDC does own a GPS unit and will be utilizing it during the dry-weather screening, which will begin during the 2nd year.
#4.2: Update drainage system map based on field observations.	<ul style="list-style-type: none"> Field verification of the storm water conveyance system and known storm water point source outfalls that are owned and/or operated by the LCDC based on existing map will be completed during initial dry-weather inspection, follow-up inspections, or as a separate field reconnaissance. The drainage system map and outfall table will be updated based on these observations. 	<ul style="list-style-type: none"> Copies of updated maps and outfall tables. 	Begin in 2 nd year and complete in the 4 th year; on-going as new outfalls are added to system.	<ul style="list-style-type: none"> The LCDC will complete a field verification of the storm conveyance system and outfalls that are owned and/or operated by the LCDC in coordination with the dry-weather screening which will begin during the 2nd year.
#4.3: Develop and implement a procedure to identify and record, map, and inspect outfalls from new construction.	<ul style="list-style-type: none"> Procedure will involve identifying new outfalls and receiving waters of those discharges from new construction through the construction approval process, adding the outfalls to the existing drainage system map, and performing an initial dry weather inspection on the outfall. 	<ul style="list-style-type: none"> Documentation of outfalls recorded, mapped and inspected from new construction. Process for documentation of new outfalls from new construction. 	Complete in the 3 rd year.	<ul style="list-style-type: none"> The LCDC will develop and implement a procedure to add any new outfalls that result from new construction. This procedure will be completed in during the 3rd year.

New Point Source Discharges of Storm Water

In accordance with Part I.A.4. of the General Permit, the LCDC has not made the discovery of new storm water point sources to the separate storm water drainage system.

Nested Drainage System Agreements

The LCDC has no agreements with any “Nested Jurisdictions” and there has been no known change in the status of the nested jurisdictions within the LCDC limits as originally submitted as part of the application requirements in Part 1.A.2. of the general permit.