May 21, 2010

Illinois Environmental Protection Agency, DWPC
Compliance Assurance Section
1021 North Grand Avenue East, POB 19276
Springfield, Illinois 62794-9276

Dear Sir / Madam:

Please find enclosed two (2) signed copies of our MS4 Annual Facility Inspection Report for Permit Year 7: March 2009 to March 2010. This report is specific to Permit Number ILR400517 with your agency and has also been submitted electronically to epa.ms4annualinsp@illinois.gov.

It is our understanding that this submittal meets the Year 7 requirements for the National Pollution Discharge Elimination System (NPDES) Phase II permit program for Lake County. Please do not hesitate to contact me if you have any questions or if you should have a need for additional information.

Very truly yours,

Al Giertych, P.E.
Assistant County Engineer
agiertych@co.lake.il.us

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
ANNUAL FACILITY INSPECTION REPORT
NPDES PERMIT FOR STORM WATER DISCHARGES FROM MUNICIPAL SEPARATE STORM SEWER SYSTEMS (MS4)

Complete each section of this report.

Reporting Period from: March, 2009 To: March, 2010 Permit Number : ILR400517

MS4 OPERATOR INFORMATION: (As it appears on the current permit)

Name: Lake County Telephone: 847-377-2234

Mailing Address: 18 North County Street

City: Waukegan State: IL Zip: 60085 County: Lake

Contact Person: Dusty Powell, Senior Assistant County Administrator

(Person responsible for Annual Report)

Name(s) of governmental entity(ies) in which MS4 is located: (As it appears on the current permit)

Lake County, Illinois

THE FOLLOWING ITEMS MUST BE ADDRESSED.

A. Changes to best management practices (check appropriate BMP change(s) and attach information regarding change(s) to BMP and measurable goals.)

1. Public Education and Outreach ☐
2. Public Participation/Involvement ☐
3. Illicit Discharge Detection & Elimination ☒
4. Construction Site Runoff Control ☐
5. Post-Construction Runoff Control ☐
6. Pollution Prevention/Good Housekeeping ☐

B. Attach the status of compliance with permit conditions, an assessment of the appropriateness of your identified best management practices and progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and your identified measurable goals for each of the minimum control measures.

C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

D. Attach a summary of the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule.)

E. Attach notice that you are relying on another government entity to satisfy some of your permit obligations (if applicable).

F. Attach a list of construction projects that your entity has paid for during the reporting period.

Signature: Barry Burton Date: May 21, 2010

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

EMAIL COMPLETED FORM TO: epa.ms4annualinsp@illinois.gov

or Mail to: Illinois Environmental Protection Agency, DWPC
Compliance Assurance Section #19
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

Information required by this form must be provided to comply with 415 ILCS 5/39 (1996). Failure to do so may prevent this form from beingprocessed and could result in your application being denied. This form has been approved by the Forms Management Center.

Lake County (MS4) Annual Facility Inspection Report

Illinois Environmental Protection Agency
National Pollutant Discharge Elimination System Phase II

Permit Year 7: March 2009 to February 2010

LakeCounty

Contents

Part A. Changes to Best Management Practices A-1

Part B. Status of Compliance with Permit Conditions B-1

Part C. Information and Data Collection Results C-1

Part D. Summary of Year 8 Stormwater Activities D-1

Part E. Notice of Qualifying Local Program E-1

Part E1. Changes to Best Management Practices E-2
Part E2. Status of Compliance with Permit Conditions E-3
Part E3. Information and Data Collection Results E-8
Part E4. Summary of Year 8 Stormwater Activities E-9
Part E5. Construction Projects Conducted During Year 7 ..... E-16

Part F. Construction Projects Conducted During Year 7 ..... F-1

Appendix

Lake County Div. of Transportation – 2009 NPDES Outfall Inspection Report dated 11/24/09

SWALCO Household Chemical Waste Collection Program 2009 Summary Report

Part A. Changes to Best Management Practices

Note: **X indicates BMPs performed that were proposed in your NPDES permit**
✓ indicates changes to BMPs proposed in your NPDES permit

Year 7	
MS4	
A. Public Education and Outreach	
X	A.1 Distributed Paper Material
X	A.2 Speaking Engagement
X	A.3 Public Service Announcement
X	A.4 Community Event
	A.5 Classroom Education Material
	A.6 Other Public Education
B. Public Participation/Involvement	
X	B.1 Public Panel
	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
X	B.4 Public Hearing
X	B.5 Volunteer Monitoring
	B.6 Program Coordination
	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
X	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
✓	C.3 Detection/Elimination Prioritization Plan
X	C.4 Illicit Discharge Tracing Procedures
X	C.5 Illicit Source Removal Procedures
✓	C.6 Program Evaluation and Assessment
X	C.7 Visual Dry Weather Screening
X	C.8 Pollutant Field Testing
X	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 7	
MS4	
D. Construction Site Runoff Control	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
X	D.7 Other Construction Site Runoff Controls
E. Post-Construction Runoff Control	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
	E.7 Other Post-Const Runoff Controls
F. Pollution Prevention/Good Housekeeping	
X	F.1 Employee Training Program
X	F.2 Inspection and Maintenance Program
X	F.3 Municipal Operations Storm Water Control
X	F.4 Municipal Operations Waste Disposal
	F.5 Flood Management/Assess Guidelines
X	F.6 Other Municipal Operations Controls

C.3.1 Detection/Elimination Prioritization Plan

Measurable Goals: Lake County intends to develop a plan to detect and address illicit discharges. The plan developed by the MS4 would be dependent on several factors, including available resources, size of staff, degree and character of its illicit discharges. SMC (the QLP) has assembled various sources of information, including case studies on illicit discharge detection and elimination programs throughout the U.S.

Status: Lake County has reviewed information provided by SMC on how to develop an NPDES program. Case studies of other NPDES programs have been included in this review. Lake County has actively participated in the SMC sponsored Municipal Advisory Committee (MAC) meetings throughout Year 7. Illicit discharge detection planning and program development continue as a topic of discussion. Illicit Discharge Detection and Elimination Procedures have begun to be implemented but further work needs to be done. This effort will be continued and included in the development and implementation of a Stormwater Management and Pollution Prevention Plan (SMPP) for Lake County in Year 8.

C.3.2 Detection/Elimination Prioritization Plan

Measurable Goal(s): Lake County committed to implement the plan established during the original NOI to detect and address illicit discharges. Detection methods were to include dry-weather screening, regular storm sewer maintenance, and public reporting. Plan was to be implemented in accordance with performance milestones established in SMPP. All outfalls which were observed to have dry weather flow during pre-screening (pre-screening activities completed during original NOI), would be investigated by the end of Year 8. Dry weather screening of all outfalls is to be completed on a rotating basis with each outfall being inspected at least once every 5-years. Enhance current plan based on SMPP template and implement plan enhancements.

Status: SMPP template language developed by QLP during Year 6. The MS4 will review, revise and accept the SMPP by the end of Year 8. Dry weather screening of all storm sewer system outlets conducted during Year 7 with no illicit discharges detected (See Appendix).

C.6.1 Program Evaluation and Assessment

Measurable Goals: The MS4 committed to evaluate and assess the effectiveness of IDDE procedures and processes that have been implemented.

Status: Sufficient progress has not been made on IDDE inspections to evaluate their effectiveness. This measure will be carried over into Year 8 of the program.

Part B. Status of Compliance with Permit Conditions

The status of BMPs and measurable goals performed in Year 7 is described below.

1. Public Education and Outreach

Lake County (MS4) committed to implementing the Public Education and Outreach component of its Stormwater Management Program. The Public Education and Outreach program includes the distribution of educational material to the community or conducting equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants to stormwater runoff. Lake County committed to implementation of BMPs as described below.

A.1.1 Distributed Paper Material

Measurable Goals: Lake County committed to distribute publications received from SMC to local target groups.

Status: Made available and distributed two manuals "A Citizen's Guide to Maintaining Stormwater Best Management Practices" and "Living with Wetlands: A Handbook for Homeowners in Northeastern Illinois" to local entities such as homeowners associations and stakeholder groups.

A.1.2 Distributed Paper Material

Measurable Goals: The Lake County Department of Planning, Building and Development committed to distribute educational materials on a variety of storm water quality topics to targeted groups.

Status: The Lake County Planning, Building and Development Department made available and distributed the following publications to permit applicants, developers, homeowner groups and any other interested groups or individuals. All of the publications were formally reviewed and revised for accuracy during Year 6.

"Silt Fences & Straw Bale Barriers" – Erosion control best practices.
"Site Development Permits" – Natural resource issues related to site development.
"Wetlands" – General regulatory information as it relates to site development.
"Floodplains" – General regulatory information as it relates to site development.
"Soil Erosion & Sediment Control" – General regulatory information as it relates to site development.
"Septic Systems" – Site development requirements.
"Swales" – Site development requirements.

A.1.3 Distributed Paper Material

Measurable Goals: The Lake County Health Department committed to distribute educational materials on a variety of stormwater quality topics to targeted groups.

Status: The Lake County Health Department made available and distributed the following publications related to natural resources and water quality management during Year 6.

"Cattail Chronicles" – A biannual newsletter published by the Lakes Management Unit of the Environmental Health Division of the Lake County Health Department dedicated to public education on water quality issues specific to Lake County.
"Wastewater News" – A biannual newsletter.
"Waterlines" – A water well newsletter targeting licensed well contractors.
"National Groundwater Awareness Week" – Since 1999 the Lake County Health Department has issues a press release and reduced water analysis fees for private well samples during this annual observance. In 2006, Lake County expanded the reduced-fee tests available and produced a pamphlet explaining common water testing parameters.

"National Recreational Water Illness Prevention Week" – The Lake County Health Department is highlighting the value of healthy swimming and recreational water illness prevention.
"Private Water Well Testing" – Publication.
"Types of Wells in Lake County" – Publication.
"Frequently Asked Questions about Water Wells" – Publication.
"Well Chlorination Procedures" – Publication.
"Investigate Before You Invest in a Vacant Lot" – Publication.
"Investigate Before You Invest in a Home" – Publication.
"Wastewater Treatment and Dispersal by Onsite Wastewater Treatment Systems" – Publication.
Numerous water related press releases *(i.e. Reduce Outdoor Water Use During Drought)*
"Lake Reports" – An annual report issued by the Lakes Management Unit of the Environmental Health Division of the Lake County Health Department. Report contains detailed information on the environmental health of 22 different lakes in Lake County.
"Buffer Strips – Why they should be part of your shoreline" – Best management practices for planting and maintaining shoreline property.
"Phosphorous in Lake County" – Educational brochure on limiting the use of phosphorous.

A.1.4 Distributed Paper Material

Measurable Goals: The Lake County Department of Planning, Building and Development is committed to maintaining its status as a Class 7 Community participant of the Federal Emergency Management Agency (FEMA) Community Rating System (CRS) by performing an annual outreach mailing to property owners subject to repeated flooding and completing an annual press release to provide notification of the completion of the Lake County All Natural Hazards Mitigation Plan Annual Evaluation Report.

Status: The Lake County Planning, Building and Development Department entered the FEMA CRS program as a Class 7 Community in December 2008 of Year 6 and completed the first Annual CRS Recertification in October 2009 of Year 7; as part of the recertification, the annual outreach mailing to floodprone properties was performed for the second year and the annual press release was issued regarding the completion of the first Lake County All Natural Hazards Mitigation Plan Annual Evaluation Report.

A.2 Speaking Engagement

Measurable Goals: Lake County committed to make employees available for speaking engagements to groups of interested residents on storm water related topics. This program is administered by the Lake County Communications Department (CAO).

Status: The Lake County Communications Department made available public speakers on storm water related topics through its "Speakers Bureau". These services were provided upon request to interested public groups. Speakers are Lake County employees and are selected based upon there expertise on a requested topic.

A.3 Public Service Announcement

Measurable Goals: Lake County committed to produce and air two or more public service announcements on the local cable access channel run by Lake County (LCTV) and to make these PSAs available for use by other MS4's in Lake County. Citizen participation in preserving storm water quality was to be the focus.

Status: This goal was completed during year 7. Lake County organized a working group of other MS4's located in Lake County and three (3) video PSAs were produced utilizing Lake County Communications Department video production resources. These video PSA's have been aired regularly on the local access channel run by Lake County (LCTV) as well as participating municipal websites. The three PSA's are available on the Lake County Website at the following links:

(1) "Keep Our Water Clean" http://lakecnty.granicus.com/MediaPlayer.php?view_id=3&clip_id=372
(2) "Lauren's Carwash Blues" http://lakecnty.granicus.com/MediaPlayer.php?view_id=3&clip_id=329
(3) "Stop Fertilizer Pollution" http://lakecnty.granicus.com/MediaPlayer.php?view_id=3&clip_id=326

A.4.1 Community Event
Measurable Goals: A soil erosion and sediment control workshop was to be sponsored by the QLP and conducted on a bi-annual basis. This workshop was to be geared toward developers, engineers, municipalities and enforcement officers. Lake County committed to participate in the bi-annual workshop.

Lake County committed to participate in local initiatives directed at improving water quality.

Status: Lake County participated in the bi-annual soil erosion and sediment control workshop and in other locally sponsored efforts to improve water quality.

A.4.2 Community Event
Measurable Goals: The MS4 committed to provide a convenient location where the general public could dispose of common household pollutants. The MS4 committed to publicize these opportunities.

Status: The Solid Waste Agency of Lake County (SWALCO) held 32 household chemical waste (HCW) collection events in 9 different communities throughout Lake County during Year 7, which resulted in the collection of approximately 572,000 pounds of HCW from over 6,700 households. These HCW collection events provide all Lake County residents with a safe and convenient way to manage household chemicals and reduce the amount of chemicals entering the storm water sewer systems in Lake County. Lake County is a member of SWALCO and actively supports the promotion and importance of SWALCO's programs to reduce the toxicity of the waste stream in Lake County. SWALCO's program is well known in the county having been in existence since 1998 and having served over 78,000 households in Lake County (Refer to HCW Collection Summary for 2009 in Appendix).

A.4.3 Community Event
Measurable Goals: Lake County committed to sponsor local events geared towards educating and sharing information on water quality protection.

Status: The Lake County Health Department and the Lake County Division of Transportation joined with the IEPA and the QLP to sponsor a snow and ice control workshop emphasizing the protection of water resources. The workshop targeted local agencies involved in winter highway operations and included training on best practices for the use of roadway de-icing chemicals.

2. Public Participation/Involvement
Lake County is committed to implementing the Public Participation/Involvement component of its Stormwater Management Program. The Public Participation/Involvement program includes attending and publicizing watershed stakeholder meetings, presenting program information at a public meeting at least annually and publicizing IDDE reporting contact numbers. The MS4 commits to implementation of BMPs as described below.

B.1 Public Panel
Measurable Goals: Involvement on public panels. Number of meetings attended / degree of participation. Representatives from the Lake County Department of Planning, Building and Development and the Lake County Division of Transportation committed to continue to serve on the SMC Technical Advisory Committee (12 meetings) and the SMC Municipal Advisory Committee (12 meetings) during Year 7.

Status: Representatives from the lake County Department of Planning, Building and Development and the Lake County Division of Transportation actively served on the SMC Technical Advisory Committee (12 meetings) and the SMC Municipal Advisory Committee (12 meetings) during Year 7.

B.3 Stakeholder Meeting
Measurable Goals: Stakeholder meetings are conducted throughout the county for ongoing planning and project implementation efforts. When stakeholder groups (such as watershed planning committees) include the jurisdictional area of the MS4, the MS4 commits to publicize the stakeholder meetings locally and participate.

Status: Participated in relevant watershed planning committees and other stakeholder groups such as:

- Chicago Wilderness Aquatic Task Force
- Barrington Area Council of Governments (BACOG) – Water Quality Committee
- NIPC Water Supply Task Force and Water Quality Task Force for the 2002 NIPC Strategic Plan for Water Resource Management
- Lake County Framework Plan and Unified Development Ordinance Committees regarding water supplies and water quality
- Fremont Township Well Committee
- Indian Creek Watershed Committee
- Fish Lake Drain Watershed Committee
- Upper Des Plaines River Watershed Committee
- Flint Creek Watershed Committee
- North Mill Creek Watershed Committee
- Squaw Creek Watershed Committee
- Sequoit Creek Watershed Committee
- North Chicago Watershed Committee
- Waukegan River Watershed Committee
- ISD (Onsite Wastewater) Steering Committee
- Management entities for individual lakes in Lake County (Homeowners Associations, Villages and/or Townships).

B.4 Public Hearing

Measurable Goals: Lake County commits to meet its own requirements for conducting a variety of public meetings or hearings on issues that are related to preserving storm water quality.

Status: The following types of public meetings or hearings were held in Year 7 and frequently included agenda items related to storm water quality:

Lake County Board – The Lake County Board meets each month to conduct the business of Lake County. These meetings are open to the public and are broadcast on local cable television access. The County Board also has a number of working committees that members serve on which meet regularly and are also open to the public.

Zoning Board of Appeals – The Zoning Board of Appeals holds public hearings to consider applications for rezoning, conditional use permits and requests for variation and administrative appeals. All meetings of the Zoning Board of Appeals are open to the public.

Regional Planning Commission – The Regional Planning Commission is an advisory group to the Lake County Board on issues related to land development. The Commission meets twice monthly. All meetings of the Commission are open to the public.

Lake County Stormwater Management Commission – Lake County Board members comprise six of twelve representatives on this commission. The Commission is responsible for implementing the Comprehensive Storm water Management Plan for Lake County which was previously adopted jointly by the Lake County Board and the Commission in 1990. The Commission meets monthly and all meetings are open to the public. The Lake County Storm water Management Commission serves as the Qualifying Local Program (QLP) for this submittal.

Technical Advisory Committee / Lake County Stormwater Management Commission – This is a working committee of representative staff from local government and private development interests in Lake County. Lake County has representatives from it's Department of Planning, Building and Development and Division of Transportation that continue to serve on this committee. The Technical Advisory Committee meets once each month and all meetings are open to the public.

Municipal Advisory Committee / Lake County Stormwater Management Commission – This is a working committee of representative staff from local government interests and MS4s in Lake County. Lake County has representatives from it's Department of Planning, Building and Development, Health Department and Division of Transportation that serve on this committee. The Municipal Advisory Committee meets once each month and all of the meetings are open to the public.

B.5 Volunteer Monitoring

Measurable Goals: "Lake County Adopt-A-Highway Program". Volunteer groups "adopt" a section of County Highway and agree to remove litter twice each year. The Lake County Division of Transportation committed to administering and managing this program during Year 7.

Status: During Year 7, the Lake County Division of Transportation worked with 230 different volunteer groups that actively cleaned up litter and debris on sections of the county highway system.

3. Illicit Discharge Detection and Elimination

The MS4 will implement program activities related to the Illicit Discharge Detection and Elimination (IDDE) minimum control. The requirements of an IDDE program include the following:

- Develop a storm sewer system map that shows the locations of all outfalls and the names and locations of all water of the US that receive discharges from those outfalls.
- Prohibit non-storm water discharges into the storm sewer system and implement appropriate enforcement procedures and actions.
- Develop and implement a plan to detect and address illicit discharges into the storm sewer system.
- Educate public employees, businesses and general public of hazards associated with illegal discharges and improper disposal of waste.
- Identify the appropriate best management practices and measurable goals.

BMPs will be implemented under BMP numbers C.1, C.2, C.3, C.4, C.5, C.6, C.7, C.8 and C.9 as described below.

C.1 Storm Sewer Map Preparation

Measurable Goals: Lake County will prepare an outfall map to allow for tracking of dry weather flow inspections and outfall maintenance. The Lake County Division of Transportation will implement and maintain a program to inventory and locate all storm water discharge points located on the County Highway System. This data will be stored in a GIS database for analysis and mapping use. Lake County is committed to working with other MS4's in Lake County to maintain data collection standards that will foster data sharing and county-wide mapping.

Status: 100% percent of storm sewer outlets inventoried and mapped in a GIS database. Inventory and database updated during Year 7 to reflect changes and additions. Storm sewer inventory and map available to employees through workplace intranet as a tool to assist in working with storm water related issues.

C.2 Regulatory Control Program

Measurable Goals: Lake County will review, consider, adopt and maintain ordinance language to prohibit non-storm water discharges to the storm sewer or drainage system and to provide an enforcement mechanism for the illicit discharge detection and elimination program. The Lake County Division of Transportation will impose applicable statutory authority as an additional enforcement mechanism when necessary to eliminate identified illicit discharges from the system.

Status: QLP provided SMPP template for MS4s during Year 6. Promoted methods, activities, enforcement and schedule to identify and remove illicit discharges. Watershed Development Ordinance and Unified Development Ordinance language changes adopted during Year 4 with IDDE program in place in the Unified Development Ordinance during Year 6. Continued work on development of IDDE program including field screening, sampling and review of storm sewer outfalls during dry weather conditions.

C.3.1 Detection/Elimination Prioritization Plan

Measurable Goals: Lake County intends to develop a plan to detect and address illicit discharges. The plan developed by Lake County will be dependent on several factors, including available resources, size of staff, degree and character of its illicit discharges. SMC (the QLP) has assembled various sources of information, including case studies on illicit discharge detection and elimination programs throughout the U.S. for use in this plan development.

Status: Lake County has reviewed information provided by SMC on how to develop an NPDES program. Case studies of other NPDES programs have been included in this review. Lake County has actively participated in the SMC sponsored Municipal Advisory Committee (MAC) meetings throughout Year 7. Illicit discharge detection planning and program development continues as a topic of discussion. Illicit Discharge Detection and Elimination Procedures have begun to be implemented but further work needs to be done. This effort will be continued and included in the development and implementation of a Stormwater Management and Polution Prevention Plane for the MS4 in Year 8.

C.3.2 Detection/Elimination Prioritization Plan

Measurable Goal(s): Lake County committed to implement the plan established during the original NOI to detect and address illicit discharges. Detection methods were to include dry-weather screening, regular storm sewer maintenance, and public reporting. All outfalls which were observed to have dry weather flow during pre-screening (pre-screening activities completed during original NOI), would be investigated by the end of Year 8. Dry weather screening of all outfalls is to be completed on a rotating basis with each outfall being inspected at least once every 5-years. Enhance current plan based on SMPP template and implement plan enhancements.

Status: SMPP template language developed by QLP during Year 6. Lake County to implement SMPP during Year 8. Dry weather screening and evaluation of all storm sewer system outlets conducted during Year 7 (including targeted and random sampling and testing) with no illicit discharges detected (See Appendix to this report).

C.4 Illicit Discharge Tracing Procedures

Measurable Goals: Implement procedures established during original NOI to trace found/observed illicit discharges to their origin. Efforts to locate illicit discharges will be documented. Enhance current plan based on SMPP template and implement plan enhancements.

Status: SMPP has not yet been prepared and implemented by Lake County (MS4). Lake County currently relies upon it's existing regulatory and statutory authority to correct any illicit upstream discharges that would be discovered. Efforts to identify illicit discharges conducted during Year 7 and documented in Lake County Division of Transportation – 2009 NPDES Outfall Inspection Report dated 11/24/09 (See Appendix to this report). SMPP template developed by QLP during Year 6 for use by Lake County MS4s. Efforts to prepare and implement an SMPP are on-going, carry over this item to Year 8.

C.5.1 Illicit Source Removal Procedures

Measurable Goals: Lake County committed to provide residents with responsible means for disposal of household chemical waste products during Year 7. Public response to collection efforts.

Status: The Solid Waste Agency of Lake County (SWALCO) held eight (8) mobile drop-offs in the following towns: Fox Lake, Vernon Hills, Lake Zurich, Wauconda, Deerfield, Lake Forest, Round Lake Beach and Mundelein. Under SWALCO's unique hybrid program the Agency also held 24 public drop-offs at it's permanent HCW processing and transfer facility in Gurnee. This site is open year round on the second Saturday and fourth Monday of every month. In addition to these events and the permanent collection facility in Gurnee, the Agency partnered with the Lincolnshire-Riverwoods Fire Protection District in 2009 to establish the HCW Satellite Collection Program which became operational in the fall of 2009. Under this program the Fire Protection District collects HCW at its fire station in Lincolnshire and stores them in a specially permitted and equipped storage room. Collections are held every other Saturday. It is also important to note that SWALCO accepts all non-DEA regulated drugs and pharmaceuticals at its HCW collection events, thereby diverting them from entering our waterways. In total, for the permit time period SWALCO's HCW program diverted over 572,000 pounds or 1,609 55-gallon drums of HCW from illicit or improper disposal in Lake County(Refer to HCW Collection Summary for 2009 in Appendix) .

C.5.2 Illicit Source Removal Procedures

Measurable Goals: The MS4 committed to begin developing a municipal employee IDDE training program during Year 6. Target employees in relevant positions that will perform activities such as illicit discharge tracing procedures, visual dry weather storm water outfall screening and illicit source removal. Continue to advertise illicit discharge/illegal dumping hotline in local newsletter. Track hotline calls. Investigate suspicious reports in the field. (Depending upon level/type of implementation, related measurable goals could also be applied to C.7.). Create and distribute materials educating public about elements of IDDE program, such as illicit discharge/illegal dumping hotline, IDDE ordinance and SWALCO waste collection events. (Depending upon level/type of implementation, related measurable goals could also be applied to A.1 and/or A.4.) Coordinate with SWALCO to market waste collection events to the public and to distribute IDDE-related information during the event.

Status: Began to implement municipal employee IDDE training program with initial round of employee training on municipal housekeeping completed. Budgeted for and acquired equipment for cleaning of stormwater inlets and catchbasins (Vactor). Began a work program for the systematic cleaning, inspection and labeling of storm sewer inlets on the County Highway system. This program has been started in Year 7 and will be carried over and continue to be implemented in Year 8 (See C.5.2). As of the end of program Year 7, crews have inspected, cleaned and repaired 250 or about 2% of the inlets, manholes and catch basins on the county highway system. Future progress will be subject to the ongoing availability of labor and equipment resources for this purpose. This work program will be carried over and continue to be rolled out during Year 8.

C.6 Program Evaluation and Assessment

Measurable Goals: Lake County will periodically evaluate and assess their IDDE program. Collaborate and share information about IDDE program and results through MAC. Share ideas about common illicit discharges,

enforcement methods, prevention methods and public education/outreach techniques. Conduct an internal review of compliance efforts with the original NOI during Years 6-7.

*Status: C*onsultant hired to conduct an objective program assessment and make recommendations for improvement during Years 6-7. This program assessment effort is complete with implementation of recommendations for improvement in progress.

C.7 Visual Dry Weather Screening

Measurable Goals: The MS4 will conduct dry weather screening to locate illicit discharges. Perform visual dry weather storm sewer outfall screening during Year 6. Investigate citizen illicit discharge/illegal dumping hotline reports when noted in the field. Utilize targeted video pipe inspections when needed to trace illicit discharges.

Status: Visual dry weather storm sewer outfall screening was conducted during Year 7 for 1093 outfalls with a total of nine potential illicit discharge locations identified, investigated and ultimately resolved.

C.8 Pollutant Field Testing

Measurable Goals: The MS4 committed to implement field testing of apparent illicit discharges for pollutants.

Status: Visual dry weather storm sewer outfall screening was conducted during Year 7 by an independent contractor for 1093 outfalls with a total of nine potential illicit discharge locations identified. Field test kits were utilized to further screen these nine locations during follow-up visits resulting in all but two being eliminated as illicit discharge locations. Those remaining two locations and ten additional random locations were then sampled and laboratory tested for signs of illicit discharge. Lab results did not indicate evidence of illicit discharge and no further action was taken (See Appendix to this report).

C.9 Public Notification

Measurable Goals: The Lake County Division of Transportation will put in place during Year 7 informational storm water inlet markings at a select number of existing inlet locations on the County highway system as available labor and equipment resources permit. New construction will utilize storm sewer inlet grate castings that incorporate an environmental notice onto the surface of all curb inlets beginning in 2007. Number and variety of installations. Quality and legibility of message provided on curb inlets.

Status: Informational markings at existing inlet locations has been incorporated into storm inlet cleaning procedures. This program has been started in Year 7 and will be carried over and continue to be implemented in Year 8 (See C.5.2). As of the end of program Year 7, crews have inspected, cleaned and repaired 250 or about 2% of the inlets, manholes and catch basins on the county highway system. Future progress will be subject to the ongoing availability of labor and equipment resources for this purpose.

4. Construction Site Runoff Control

Lake County has adopted a Watershed Development Ordinance (WDO) that establishes the minimum stormwater management requirements for development in Lake County. The WDO, which is enforced by SMC as well as by certified communities in the county, establishes standards for construction site runoff control. The enforcement of the WDO implements BMPs as described below.

D.1.1 Regulatory Control Program

Measurable Goals: Institute an effective local regulatory program for controlling runoff from construction sites. The Unified Development ordinance has been adopted by Lake County as the regulatory mechanism to require erosion and sediment controls for construction activities in unincorporated Lake County. At a minimum, these standards apply to any development that hydrologically disturbs 1,000 square feet or more. Number of site development permits issued. Number of site inspections conducted.

Status: This program is in place. During the reporting period, from 3-15-09 to 3-15-10, the Lake County Department of Planning, Building and Development issued 417 Site Development Permits and conducted 4,037 field inspections.

D.1.2 Regulatory Control Program
Measurable Goals: Lake County will revise the Unified Development Ordinance to incorporate the changes in minimum requirements made necessary by the proposed revisions to the SMC Watershed Development Ordinance. This will require that Lake County open a public comment period and conduct a public meeting or public hearing on the proposed revisions.

Status: Necessary ordinance subsequent revisions have been completed and were implemented.

D.2.1 Erosion and Sediment Control BMPs
Measurable Goals: Erosion and sediment control plans required for all regulated development. Quality of approved erosion and sediment control site plans and BMPs incorporated. Degree of compliance with approved site plans during construction.

Status: This program is in place. The Lake County Department of Planning, Building and Development requires storm water pollution prevention plans for all development requiring a site development permit. These plans are reviewed by staff prior to permit issuance and the start of construction activity. Construction sites are monitored by environmental inspectors employed by the Department.

D.2.2 Soil and Erosion Control Inspector's Program
Measurable Goals: Number of projects requiring a site development inspector. Degree of compliance with approved site plans during construction. Land area disturbed and length of time disturbed.

Status: During Year 4, the Unified Development Ordinance was amended to include a soil and erosion control inspector's program for projects exceeding 10 acres of hydrologic disturbance or exceeding 1 acre of hydrologic disturbance and having a Regulatory Floodplain, Isolated Waters of Lake County or Waters of the United States on-site or on adjoining property. The site development inspector acts as a private consultant hired by the applicant.

D.3.1 Other Waste Control Program
Measurable Goals: Quantity and variety of waste materials collected. Public response to collection efforts.

Status: Lake County, through its membership in SWALCO, has one of the most extensive and effective household chemical waste programs in the State. The program provides a convenient way for residents throughout the county to properly manage potentially harmful chemicals and keep them out of our waterways. Of the 572,000 pounds of HCW collected in 2009, 39% were paints, 24% flammables, 13% poisons, 7% aerosols, 7% oils/antifreeze, 5% corrosive/oxidizer, 2% asbestos and 3% other (Refer to HCW Collection Summary for 2009 in Appendix).

D.3.2 Other Waste Control Program
Measurable Goals: Number of properties cleaned up. Quality of response to complaints received.

Status: Lake County has in place a nuisance ordinance which prohibits junk and debris and junk vehicles from collecting on properties. Helps to keep waste materials out of receiving streams.

D.3.3 Construction Project Recycling
Measurable Goals: Amount of construction waste recycled. Level of awareness by construction trades of available recycling alternatives.

Status: During Year 5, an intergovernmental agreement between Planning, Building and Development and SWALCO was maintained for Planning, Building and Development to inform and educate developers of subdivisions and commercial projects to recycle construction waste. During Year 7, a total of 39 permit applicants were informed of the program. Thresholds for the agreement are as follows:

- Any proposed subdivision containing 5 or more lots (with 5 or more new homes) and,
- Any non-residential development, including additions, consisting of new floor area in the amount of 10,000 square feet or more.
- Applicants are informed of the program during the building permit application process.

D.4 Site Plan Review Procedures
Measurable Goals: Conduct reviews of site plans for compliance with soil erosion and sediment control requirements and for incorporation of best management practices. Dedicate adequate and qualified staff to these review assignments.

Status: This program is in place. The Planning, Building and Development Department conducts detailed reviews of site plans for compliance with minimum soil erosion and sediment control measures and incorporation of best management practices as a step in the site development permit review process. Field inspections are conducted on a regular basis to ensure compliance. 417 Site Development Permits were issued and 4,037 site inspections were conducted by the Lake County Department of Planning, Building and Development during the twelve month period from 3-15-09 to 3-15-10.

D.5 Public Information Handling Procedures
Measurable Goals: Establish procedures for processing information received from the public about active or proposed construction activities. Dedicate adequate trained staff to receive and process public inquiries or complaints. Number of public inquiries processed. Public satisfaction with staff response.

Status: This program is in place. During Year 7 of the program, Lake County processed 160 complaints.

D.6.1 Site Inspection/Enforcement Procedures
Measurable Goals: Conduct construction site inspections. Number of site inspections completed. Deficiencies noted and compliance achieved. Inspect critical construction sites monthly or after rain events greater than 0.5 inches.

Status: This program is in place. During Year 7 of the program, 4,037 site inspections were conducted by the Lake County Planning, Building and Development Department.

D.6.2 Site Inspection/Enforcement Procedures
Measurable Goals: The Lake County Division of Transportation will hold pre-construction meetings with the contractor to review site requirements and the soil erosion and sediment control plan for all highway improvement projects. The SMC field inspector will be invited to participate in these meetings. Contractor compliance with plan requirements.

Status: This program is in place and well established. The Lake County Division of Transportation hosted preconstruction meetings for all of it's projects during Year 7.

D.6.3 Site Inspection/Enforcement Procedures
Measurable Goals: The Lake County Department of Planning, Building and Development will hold pre-construction meetings with the contractor to review site requirements and the soil erosion and sediment control plan for all new subdivision developments. The site development field inspector will be invited and will participate in these meetings. Contractor compliance with plan requirements.

Status: This program is in place. During Year 7 of the program, 25 pre-construction meetings were held.

D.7 Other Construction Site Run-off Controls
Measurable Goals: The Lake County Division of Transportation initiated a program to hire an engineering consultant to provide independent performance reviews and inspections of construction sites during the construction season. The consultant reviewed site compliance with the SWPPP, prepared inspection reports and records associated with NPDES Phase II requirements and regularly evaluated the overall performance of the site BMP's while noting any deficiencies in the SWPPP for correction or modification. LCDOT staff to continue to provide post-storm event inspections and associated record keeping.

Status: This program is in place. SWPPP requirements reviewed at each project pre-construction conference. There were a total of 211 construction site inspection reports filed during CFY2009 with 55 reports having deficiencies to be corrected identified. 100% of deficiencies identified were corrected. Program education this

past year consisted of six resident engineers attending an all day soil erosion sediment control seminar put on by the Lake County SMC (5/10) and the department head attending an LCSMC-run New NPDES Procedures (effective 4/1/09) in 6/09. One of our Resident Engineers put on a field trip tour of a treatment train constructed on the Darrell @ Burnett project for the benefit of the other Construction, Design, Maintenance and Planning staff in 7/09 . The newest Resident Engineer passed exam and became a DECI in 6/2009. SWPPP requirements reviewed at each project preconstruction conference.

5. Post-Construction Runoff Control

As described above, the Lake County Watershed Development Ordinance (WDO) establishes the minimum stormwater management requirements for development in Lake County. The WDO establishes standards for post-construction site runoff control. These standards apply to any new development or redevelopment resulting in over 0.5 acres of new impervious area. The enforcement of the WDO implements BMPs as described below.

E.2 Regulatory Control Program

Measurable Goals: The adopted Watershed Development Ordinance minimum standards require that all applicants adopt a storm water management strategy for controlling post-construction runoff. The applicant must develop a storm water management strategy that minimizes the increase in runoff volumes and rates and addresses the water quality treatment requirements of the ordinance. The proposed drainage plan must use the runoff reduction hierarchy in the ordinance and implement BMPs as required. The ordinance also requires the use of buffers when adjacent to existing water bodies. Continue to enforce the existing ordinance. All disturbed areas must be stabilized before final approval of a project. Implementation of necessary BMP's.

Status: This program is in place. All disturbed areas must be stabilized before final approval of a project.

E.3 Long Term O&M Procedures

Measurable Goals: The adopted Watershed Development Ordinance minimum standards require that a maintenance plan be prepared for all storm water management system components for Major Developments (as defined in the ordinance). The maintenance plan must include: maintenance tasks, the party responsible, a description of all permanent public or private access maintenance easements and overland flow paths and compensatory storage areas and a description of dedicated sources of funding for the required maintenance. Continue to enforce the existing ordinance.

Status: This program is in place.

E.4 Pre-Construction Review of BMP Designs

Measurable Goals: A plan review is conducted for all soil erosion and sediment control plans submitted. This includes a review of the proposed BMPs for post-construction runoff control. Continue to enforce the existing ordinance.

Status: This program is in place. During Year 6 of the program, 938 plan reviews were conducted.

E.5 Site Inspections During Construction

Measurable Goals: The adopted Watershed Development Ordinance provides both the recommended and the minimum requirements for site inspections. Enforcement officers may inspect a site development at any stage in the construction process. For major developments, the enforcement officer shall conduct site inspections, at a minimum, upon completion of installation of sediment and runoff control measures and after final stabilization and landscaping, prior to removal of sediment controls. Continue to enforce the existing ordinance.

Status: This program is in place. During Year 7 of the program, 4,037 site inspections were performed.

E.6 Post-Construction Inspections
Measurable Goals: The enforcement officer shall conduct post-construction inspections prior to the release of performance guarantees, maintenance guarantees or certificates of occupancy as provided for in the ordinance. Continue to enforce the existing ordinance.

Status: This program is in place.

6. Pollution Prevention/Good Housekeeping
This portion of the program involves the implementation of the operation and maintenance program to reduce the discharge of pollutants from municipal operations and a training program for municipal employees. Lake County commits to implementation of BMPs as described below.

F.1 Employee Training Program
Measurable Goals: Lake County will develop a training program for employees. Any new training materials will be developed based on guidance that is widely available. Lake County will also evaluate and incorporate existing employee training programs into this program. The training program will be updated and expanded as Lake County continues to implement its storm water management programs. Develop employee training program specific to County operations and facilities. Conduct annual training for employees that will implement or utilize BMPs. Design and conduct employee spill control training in Year 7.

Status: Lake County Division of Transportation Resident Engineers and Design Engineers trained and certified as SMC Designated Erosion Control Inspectors (DECI) during Year 7. Lake County DOT Facilities Spill Response & Control Plan completed In Year 6 and updated in Year 7. Training materials evaluated and discussed during SMC Municipal Advisory Committee meeting in Year 6 with a shared resource training plan developed. During Year 7 forty four (44) Division of Transportation Maintenance Department employees were trained using the "Storm Watch – Everyday Best Management Practices" DVD training program produced by Excal Visual Training of Boulder, Colorado. This training included BMP training for Illicit Discharge Detection and Elimination and Pollution Prevention and Good Housekeeping.

F.2.1 Inspection and Maintenance Program
Measurable Goals: The MS4 will examine and subsequently alter their own actions to help ensure a reduction in the amount and type of pollution that: (1) collects on streets, parking lots, open spaces, and storage and vehicle maintenance areas and is discharged into local waterways; and (2) results from actions such as environmentally damaging land development and flood management practices or poor maintenance of storm sewer systems. Establish a schedule for street sweeping to reduce the amount of pollution (sand, salt, leaves, etc) that accumulates on streets, which has the potential to reach waterways as runoff. Implement street sweeping at established annual frequency and document. Establish a schedule for visual storm sewer inspection. Inspect storm sewers at established annual frequency and document. Schedule maintenance as needed. Develop and implement an operations and maintenance program for detention and water quality ponds to ensure that they are operating to maximize water quality benefits and detention storage. Include formal inspection schedule, inspection checklist and record-keeping procedures. (Depending upon level/type of implementation, related measurable goals could also be applied to F.4.) Continue to distribute educational materials on spill prevention and control procedures to targeted County employees. (Depending upon level/type of implementation, related measurable goals could also be applied to F.4.)

Status: This program implementation is ongoing and will be carried over into Year 8. Street sweeping program is in place and well established. The 191 lane miles of County Highway that were targeted for sweeping during CFY2007 were swept 5 times during that period. Storm water detention and water quality basins are inspected and maintained on a semi-annual program by a combination of in-house maintenance staff and contract personnel.

F.2.2 Inspection and Maintenance Program
Measurable Goals: Develop and implement a spill prevention and control plan for Lake County-owned facilities. Plan development, implementation and future updates. Final adoption and implementation is anticipated in Year 6.

Status: Spill prevention and control plan developed and implemented during Year 6 and updated in Year 7. Employee training conducted during Year 7 but efforts are continuing to develop and will be carried over into Year 8.

F.3.1 Municipal Operations Storm Water Control

Measurable Goals: Storm sewer system and catch basin inspection and cleaning program. **A**nnually inspect 5% of system, and clean as needed.

Status: Budgeted for and acquired equipment for cleaning of stormwater inlets and catchbasins (Vactor). Began a work program for the systematic cleaning, inspection and labeling of storm sewer inlets on the County Highway system. This program has been started in Year 7 and will be carried over and continue to be implemented in Year 8 (See C.5.2). As of the end of program Year 7, crews have inspected, cleaned and repaired 250 or about 2% of the inlets, manholes and catch basins on the county highway system. Future progress will be subject to the ongoing availability of labor and equipment resources for this purpose. This work program will be carried over and continue to be rolled out during Year 8.

F.3.2 Detention Basin Maintenance Program

Measurable Goals: The Lake County Division of Transportation inventoried County-owned detention basins in 2003-2004. These inventories include basin features such as outlet structures, emergency overflow spillways and basin type. GPS coordinates were collected for incorporation of these inventories into GIS database. Semi-annually inspect and perform necessary maintenance on all County-owned storm water detention basins. Basins to be inspected by maintenance personnel and necessary maintenance work items completed semi-annually. Prescriptive burns to be completed on two basins that incorporate prairie landscapes as necessary.

Status: Detention Basin inventory updated in Year 7. Basins inspected by maintenance personnel and necessary maintenance work items completed in Year 7.

F.4 Municipal Operations Waste Disposal

Measurable Goals: Municipal Operations Waste Disposal. Incorporate waste disposal procedures into the facilities programs described above in F.2.1 and F.2.2.

Status: This program is in place.

F.6 Other Municipal Operations Controls

Measurable Goals: Highway sweeping. Lane miles swept and frequency of sweeping during Year 7.

Status: Street sweeping program in place and well established. The 191 lane miles of County Highway that were targeted for sweeping during CFY2007 were swept 5 times during that period.

Part C. Information and Data Collection Results

Year 7 activities related to illicit discharge detection and elimination consisted primarily of dry weather screening and select testing of storm sewer outlets located on the County Highway System. Program planning efforts are ongoing and will be carried over to Year 8.

Visual dry weather storm sewer outfall screening was conducted during Year 7 by an independent contractor for 1093 outfalls with a total of nine potential illicit discharge locations identified. Field test kits were utilized to further screen these nine locations during follow-up visits resulting in all but two being eliminated as illicit discharge locations. Those remaining two locations and ten additional random locations were then sampled and laboratory tested for signs of illicit discharge. Lab results did not indicate evidence of illicit discharge and no further action was taken.

Efforts to identify illicit discharges conducted during Year 7 are documented in the Lake County Division of Transportation – 2009 NPDES Outfall Inspection Report dated 11/24/09 (See Appendix at the end of this report).

Part D. Summary of Year 8 Stormwater Activities

The following table summarizes the BMPs committed to for Year 8. Specific BMPs and measurable goals for Year 8 Stormwater Management Program development activities are presented in the sections following the table.

Note: X indicates BMPs committed to for Year 8.

Year 8 MS4	
A. Public Education and Outreach	
X	A.1 Distributed Paper Material
X	A.2 Speaking Engagement
X	A.3 Public Service Announcement
X	A.4 Community Event
	A.5 Classroom Education Material
	A.6 Other Public Education
B. Public Participation/Involvement	
X	B.1 Public Panel
	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
X	B.4 Public Hearing
X	B.5 Volunteer Monitoring
	B.6 Program Coordination
	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
X	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
X	C.3 Detection/Elimination Prioritization Plan
X	C.4 Illicit Discharge Tracing Procedures
X	C.5 Illicit Source Removal Procedures
X	C.6 Program Evaluation and Assessment
X	C.7 Visual Dry Weather Screening
X	C.8 Pollutant Field Testing
X	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 8 MS4	
D. Construction Site Runoff Control	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
X	D.7 Other Construction Site Runoff Controls
E. Post-Construction Runoff Control	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
	E.7 Other Post-Const Runoff Controls
F. Pollution Prevention/Good Housekeeping	
X	F.1 Employee Training Program
X	F.2 Inspection and Maintenance Program
X	F.3 Municipal Operations Storm Water Control
X	F.4 Municipal Operations Waste Disposal
	F.5 Flood Management/Assess Guidelines
X	F.6 Other Municipal Operations Controls

1. **Public Education and Outreach**

Lake County (MS4) is committing to implementing the Public Education and Outreach component of its Stormwater Management Program. The Public Education and Outreach program includes the distribution of educational material to the community or conducting equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants to stormwater runoff. Lake County commits to implementation of BMPs as described below.

A.1.1 Distributed Paper Material

Lake County will distribute publications received from SMC to local target groups.

Measurable Goals: Make available and distribute two manuals "A Citizen's Guide to Maintaining Stormwater Best Management Practices" and "Living with Wetlands: A Handbook for Homeowners in Northeastern Illinois" to local entities such as homeowners associations and stakeholder groups.

A.1.2 Distributed Paper Material

The Lake County Department of Planning, Building and Development will distribute educational materials on a variety of storm water quality topics to targeted groups.

Measurable Goal(s), including frequencies: The Lake County Planning, Building and Development Department will make available and distribute the following publications to permit applicants, developers, homeowner groups and any other interested groups or individuals.

"Soil Erosion and Sediment Control" - Erosion control best management practices
"Floodplains and Wetlands" - Natural resource issues related to site development
"Structures in the Floodplain" – General regulatory information as it relates to site development
"Seawalls" – General regulatory information as it relates to site development
"Ponds, Berms, Swales, Filling and Restoration" – General regulatory information as it relates to site development
"Topographic Surveys" – Site development requirements
"As-Built Foundation Surveys" – Site development requirements

A.1.3 Distributed Paper Material

The Lake County Health Department will distribute educational materials on a variety of stormwater quality topics to targeted groups.

Measurable Goal(s), including frequencies: The Lake County Health Department will make available and distribute the following publications related to natural resources and water quality management.

"Cattail Chronicles" – A quarterly newsletter published by the Lakes Management Unit of the Environmental Health Division of the Lake County Health Department dedicated to public education on water quality issues specific to Lake County.
"Wastewater News" – A biannual newsletter.
"Waterlines" – A water well newsletter targeting licensed well contractors.
"National Groundwater Awareness Week" – Since 1999 the Lake County Health Department has issues a press release and reduced water analysis fees for private well samples during this annual observance. In 2006, Lake County expanded the reduced-fee tests available and produced a pamphlet explaining common water testing parameters.
"National Recreational Water Illness Prevention Week" – New in 2006, the lake County Health Department is highlighting the value of healthy swimming and recreational water illness prevention.
"Private Water Well Testing" – Publication.
"Types of Wells in Lake County" – Publication.
"Frequently Asked Questions about Water Wells" – Publication.
"Well Chlorination Procedures" – Publication.
"Investigate Before You Invest in a Vacant Lot" – Publication.
"Investigate Before You Invest in a Home" – Publication.
"Wastewater Treatment and Dispersal by Onsite Wastewater Treatment Systems" – Publication.
Numerous water related press releases *(i.e. Reduce Outdoor Water Use During Drought)*

"Lake Reports" – An annual report issued by the Lakes Management Unit of the Environmental Health Division of the Lake County Health Department. Report contains detailed information on the environmental health of 22 different lakes in Lake County.
"Buffer Strips – Why they should be part of your shoreline" – Best management practices for planting and maintaining shoreline property.
"Phosphorous in Lake County" – Educational brochure on limiting the use of phosphorous.

A.1.4 Distributed Paper Material

The Lake County Planning, Building and Development Department will maintain its status as a Class 7 Community participant of the Federal Emergency Management Agency (FEMA) Community Rating System (CRS) by completing the annual outreach mailing to floodprone properties as well as preparing the annual press release notification of the completion of the Annual Evaluation of the Lake County All Natural Hazards Mitigation Plan.

Measurable Goals: The Lake County Planning, Building, and Development Department will maintain its status as a Class 7 Community participant of the Federal Emergency Management Agency (FEMA) Community Rating System (CRS) through annual recertification.

A.2 Speaking Engagement

Lake County will make employees available for speaking engagements to groups of interested residents on storm water related topics. This program will be administered by the Communications Department of the Lake County Administrator's Office.

Measurable Goal(s), including frequencies: The Lake County Communications Department will arrange to provide public speakers on storm water related topics through its "Speakers Bureau". These services are provided upon request from interested public groups. Speakers are Lake County employees and are selected based upon their expertise on a requested topic.

A.3 Public Service Announcement

Lake County will and air three public service announcements that have been produced on the local cable access channel run by Lake County (LCTV). These PSAs will also be made available on the Lake County Division of Transportation website and will be shared for use by other MS4s in Lake County. Citizen participation in preserving storm water quality is the focus.

(1) "Keep Our Water Clean" http://lakecnty.granicus.com/MediaPlayer.php?view_id=3&clip_id=372
(2) "Lauren's Carwash Blues" http://lakecnty.granicus.com/MediaPlayer.php?view_id=3&clip_id=329
(3) "Stop Fertilizer Pollution" http://lakecnty.granicus.com/MediaPlayer.php?view_id=3&clip_id=326

Measurable Goals: Number and quality of PSA's broadcast. Public response and feedback to PSA's.

A.4.1 Community Event

A soil erosion and sediment control workshop will be sponsored by the QLP and conducted on a bi-annual basis. This workshop is geared toward developers, engineers, municipalities and enforcement officers. Lake County will participate in the bi-annual workshop. Participate in local initiatives directed at improving water quality.

Measurable Goal(s): Participate in the bi-annual soil erosion and sediment control workshops. Participation in locally sponsored efforts to improve water quality.

A.4.2 Community Event

The MS4 provides a convenient location where the general public can dispose of common household pollutants. Solid Waste Agency of Lake County (SWALCO) holds a minimum of two (2) household waste collection events in different communities in Lake County, which assist in collecting waste before it enters the storm sewer system. In addition, SWALCO has expanded their program to offer year around disposal of household chemical waste materials at their facilities in Gurnee, Illinois for all Lake County (and Illinois) residents. The MS4 publicizes these SWALCO events.

Measurable Goal(s): This is an established program. Continue to publicize and hold household waste collection events in Lake County. Number of participants in collection events. Amount of materials collected.

2. Public Participation/Involvement

Lake County is committing to implementing the Public Participation/Involvement component of its Stormwater Management Program. The Public Participation/Involvement program includes attending and publicizing watershed stakeholder meetings, presenting program information at a public meeting at least annually and publicizing IDDE reporting contact numbers. The MS4 commits to implementation of BMPs as described below.

B.1 Public Panel

Measurable Goals: Involvement on public panels. Number of meetings attended / degree of participation. Representatives from the lake County Department of Planning, Building and Development and the Lake County Division of Transportation will continue to serve on the SMC Technical Advisory Committee (12 meetings) and the SMC Municipal Advisory Committee (12 meetings) during Year 7.

B.3 Stakeholder Meeting

Stakeholder meetings are conducted throughout the county for ongoing planning and project implementation efforts. When stakeholder groups (such as watershed planning committees) include the jurisdictional area of the MS4, the MS4 will publicize stakeholder meetings locally and participate by being represented at the stakeholder meetings.

Measurable Goals: Publicize and participate in relevant watershed planning committees and other stakeholder groups such as:

- Chicago Wilderness Aquatic Task Force
- Barrington Area Council of Governments (BACOG) – Water Quality Committee
- NIPC Water Supply Task Force and Water Quality Task Force for the 2002 NIPC Strategic Plan for Water Resource Management
- Lake County Framework Plan and Unified Development Ordinance Committees regarding water supplies and water quality
- Fremont Township Well Committee
- Indian Creek Watershed Committee
- Fish Lake Drain Watershed Committee
- Upper Des Plaines River Watershed Committee
- Flint Creek Watershed Committee
- North Mill Creek Watershed Committee
- Squaw Creek Watershed Committee
- Sequoit Creek Watershed Committee
- North Chicago Watershed Committee
- Waukegan River Watershed Committee
- ISD (Onsite Wastewater) Steering Committee
- Management entities for individual lakes in Lake County (Homeowners Associations, Villages and/or Townships).

B.4 Public Hearing

Lake County will meet its own requirements for conducting a variety of public meetings or hearings on issues that are related to preserving storm water quality.

Measurable Goal(s), including frequencies: The following types of public meetings or hearings will be held in Year 8 and will often include agenda items that are related to storm water quality:

Lake County Board – The Lake County Board meets each month to conduct the business of Lake County. These meetings are open to the public and are broadcast on local cable television access. The County

Board also has a number of working committees that members serve on which meet regularly and are also open to the public.
Zoning Board of Appeals – The Zoning Board of Appeals holds public hearings to consider applications for rezoning, conditional use permits and requests for variation and administrative appeals. All meetings of the Zoning Board of Appeals are open to the public.
Regional Planning Commission – The Regional Planning Commission is an advisory group to the Lake County Board on issues related to land development. The Commission meets twice monthly. All meetings of the Commission are open to the public.
Lake County Stormwater Management Commission – Lake County Board members comprise six of twelve representatives on this commission. The Commission has the responsibility for implementing the Comprehensive Storm water Management Plan for Lake County which was previously adopted jointly by the Lake County Board and the Commission in 1990. The Commission meets monthly and all meetings are open to the public. The Lake County Storm water Management Commission serves as the Qualifying Local Program (QLP) for this submittal.
Technical Advisory Committee / Lake County Stormwater Management Commission – This is a working committee of representative staff from local government and private development interests in Lake County. Lake County has representatives from its Department of Planning, Building and Development and Division of Transportation that serve on this committee. The Technical Advisory Committee meets once each month and all meetings are open to the public.
Municipal Advisory Committee / Lake County Stormwater Management Commission – This is a working committee of representative staff from local government interests in Lake County. Lake County has representatives from it's Department of Planning, Building and Development, Health Department and Division of Transportation that serve on this committee. The Municipal Advisory Committee meets once each month and all meetings are open to the public.

B.5 Volunteer Monitoring

"Lake County Adopt-A-Highway Program". Volunteer groups "adopt" a section of County Highway and agree to remove litter twice each year. The Lake County Division of Transportation commits to administering and managing this program during Year 8.

Measurable Goal(s), including frequencies: Volunteer groups "adopt" a section of County Highway and agree to remove litter twice each year. Program is managed by the Lake County Division of Transportation. Number of volunteer groups in the program. Amount of trash and debris picked up on sponsored highway segments.

3. Illicit Discharge Detection and Elimination

The MS4 will implement program activities related to the Illicit Discharge Detection and Elimination (IDDE) minimum control. The requirements of an IDDE program include the following:

- Develop a storm sewer system map that shows the locations of all outfalls and the names and locations of all water of the US that receive discharges from those outfalls.
- Prohibit non-storm water discharges into the storm sewer system and implement appropriate enforcement procedures and actions.
- Develop and implement a plan to detect and address illicit discharges into the storm sewer system.
- Educate public employees, businesses and general public of hazards associated with illegal discharges and improper disposal of waste.
- Identify the appropriate best management practices and measurable goals.

BMPs will be implemented under BMP numbers C.1, C.2, C.3, C.4, C.5, C.6, C.7, C.8 and C.9 as described below.

C.1 Storm Sewer Map Preparation

Lake County will prepare an outfall map to allow for tracking of dry weather flow inspections and outfall maintenance. The Lake County Division of Transportation will implement and maintain a program to inventory and locate all storm water discharge points located on the County Highway System. This data will be stored in a GIS database for analysis and mapping use. Lake County is committed to working with other MS4's in Lake County to maintain data collection standards that will foster data sharing and county-wide mapping.

Measurable Goals: Percentage of storm sewer outlets mapped. Quality and compatibility of data with other MS4's in Lake County. Verify outfalls in the field and give each outfall a unique identifier to be used to document inspections. Update map regularly as improvements or new developments occur.

C.2 Regulatory Control Program

Lake County will review, consider, adopt and maintain ordinance language to prohibit non-storm water discharges to the storm sewer or drainage system and to provide an enforcement mechanism for the illicit discharge detection and elimination program. The Lake County Division of Transportation will impose applicable statutory authority as an additional enforcement mechanism when necessary to eliminate identified illicit discharges from the system.

Measurable Goals: Continue development of IDDE program. Promote methods, activities, enforcement and schedule to identify and remove illicit discharges. Effectiveness of enforcement efforts. Identification and elimination of illicit discharges.

C.3.1 Detection/Elimination Prioritization Plan

USEPA requires MS4s to develop a plan to detect and address illicit discharges. The plan developed by the MS4 will be dependent on several factors, including available resources, size of staff, degree and character of its illicit discharges. SMC has assembled various sources of information, including case studies on illicit discharge detection and elimination programs throughout the U.S.

Measurable Goals: Participate in the SMC sponsored Municipal Advisory Committee (MAC) meetings throughout Year 8. Illicit discharge detection planning and program development continues as a topic of discussion. Continue to develop and implement an Illicit Discharge Detection and Elimination program.

C.3.2 Detection/Elimination Prioritization Plan

Implement plan established during original NOI to detect and address illicit discharges. Detection methods include dry-weather screening, regular storm sewer maintenance, and public reporting. Program will be implemented in accordance with performance milestones that will be established in SMPP. All outfalls observed to have dry weather flow during pre-screening (pre-screening activities completed during original NOI), to be investigated by the end of Year 8. Complete dry weather screening of all outfalls on a rotating basis with each outfall being inspected at least once every 5-years. Enhance current plan based on SMPP template and implement plan enhancements.

Measurable Goal(s): Prepare and implement SMPP. Review, revise and accept SMPP template language related to this provision by the end of Year 8.

C.4 Illicit Discharge Tracing Procedures

Implement procedures established during original NOI to trace found/observed illicit discharges to their origin. Efforts to locate illicit discharges will be documented. Enhance current plan based on SMPP template and implement plan enhancements.

Measurable Goal(s): Prepare and implement SMPP. Review, revise and accept SMPP template language related to this provision by end of Year 8.

C.5.1 Illicit Source Removal Procedures

Solid Waste Agency of Lake County (SWALCO) holds household waste collection events in various communities throughout Lake County. These events are used to collect waste before it enters Lake County's storm system through illicit dumping and also to publicize Lake County's illicit discharge detection and elimination plan.

Measurable Goal(s), including frequencies: Quantity and variety of waste materials collected. Public response to collection efforts.

C.5.2 Illicit Source Removal Procedures

The MS4 will implement a program and train employees to remove potential and known sources of illicit discharges.

Measurable Goals: Begin to develop municipal employee IDDE training program. Consider targeting employees in relevant positions that will perform activities such as illicit discharge tracing procedures, visual dry weather storm water outfall screening and illicit source removal. Continue to advertise illicit discharge/illegal dumping hotline in local newsletter. Track hotline calls. Investigate suspicious reports in the field. (Depending upon level/type of implementation, related measurable goals could also be applied to C.7.). Create and distribute materials educating public about elements of IDDE program, such as illicit discharge/illegal dumping hotline, IDDE ordinance and SWALCO waste collection events. (Depending upon level/type of implementation, related measurable goals could also be applied to A.1 and/or A.4.) Contact SWALCO for relevant waste collection events in your community. Coordinate with SWALCO to market waste collection events to the public and to distribute IDDE-related information during the event. Conduct event and document participation.

C.6 Program Evaluation and Assessment

Lake County will periodically evaluate and assess their IDDE program.

Measurable Goals: Collaborate and share information about IDDE program and results through MAC. Share ideas about common illicit discharges, enforcement methods, prevention methods and public education/outreach techniques.

C.7 Visual Dry Weather Screening

The MS4 will conduct dry weather screening to locate illicit discharges.

Measurable Goals: Perform dry weather screening of all outfalls on a rotating basis with each outfall being inspected at least once every 5-years. Investigate citizen illicit discharge/illegal dumping hotline reports when noted in the field. Utilize targeted video pipe inspections when needed to trace illicit discharges.

C.8 Pollutant Field Testing

The MS4 will perform field and/or laboratory testing of apparent illicit discharges for pollutants.

Measurable Goals: Percentage of apparent illicit discharges tested.

C.9 Public Notification

The Lake County Division of Transportation will put in place during Year 8 informational storm water inlet markings at a select number of existing inlet locations on the County highway system as available labor and equipment resources permit. New construction will utilize grate castings that incorporate an environmental notice onto the surface of the curb box.

Measurable Goals: Number and variety of installations. Quality and legibility of message provided on curb inlets.

4. Construction Site Runoff Control

Lake County has adopted a Watershed Development Ordinance (WDO) that establishes the minimum stormwater management requirements for development in Lake County. The WDO, which is enforced by SMC as well as by certified communities in the county, establishes standards for construction site runoff control. The enforcement of the WDO implements BMPs as described below.

D.1.1 Regulatory Control Program
Institute an effective local regulatory program for controlling runoff from construction sites. The Unified Development ordinance has been adopted by Lake County as the regulatory mechanism to require erosion and sediment controls for construction activities in unincorporated Lake County. At a minimum, these standards apply to any development that hydrologicly disturbs 1,000 square feet or more.

Measurable Goal(s), including frequencies: Local ordinance in place. Staff dedicated to enforcement of regulatory provisions. Number of site development permits issued. Number of site inspections conducted.

D.1.2 Regulatory Control Program
Lake County will revise the Unified Development Ordinance to incorporate the changes in minimum requirements made necessary by the proposed revisions to the SMC Watershed Development Ordinance. This will require that Lake County open a public comment period and conduct a public meeting or public hearing on the proposed revisions.

Measurable Goals: Necessary ordinance revisions have been completed and implemented in Year 3 - degree of compliance with requirements of updated ordinance requirements.

D.2.1 Erosion and Sediment Control BMPs
Erosion and sediment control plans required for all regulated development.

Measurable Goal(s), including frequencies: Quality of approved erosion and sediment control site plans and BMPs incorporated. Degree of compliance with approved site plans during construction. Land area disturbed and length of time disturbed.

D.2.2 Soil and Erosion Control Inspector's Program
During Year 4, the Unified Development Ordinance was amended to include a soil and erosion control inspector's program for projects exceeding 10 acres of hydrologic disturbance or exceeding 1 acre of hydrologic disturbance and has a Regulatory Floodplain, Isolated Waters of Lake county or Waters of the United States on-site or on adjoining property. The site development inspector acts as a private consultant hired by the applicant.

Measurable Goal(s), including frequencies: Number of projects requiring a site development inspector. Degree of compliance with approved site plans during construction. Land area disturbed and length of time disturbed.

D.3.1 Other Waste Control Program
The County of Lake is a member community in the Solid Waste Agency of Lake County (SWALCO) which sponsors regular household chemical waste collection events throughout the county. Providing convenient means to the public for drop-off and disposal helps to keep these waste materials out of landfills and receiving streams.

Measurable Goal(s), including frequencies: Quantity and variety of waste materials collected. Public response to collection efforts.

D.3.2 Other Waste Control Program
Lake County has in place a nuisance ordinance which prohibits junk and debris and junk vehicles from collecting on properties. Enforcement actions help to keep waste materials out of receiving streams.

Measurable Goal(s), including frequencies: Number of violation notices posted. Number of properties cleaned up. Quality of response to complaints received.

D.3.3 Construction Project Recycling
During Year 5, an intergovernmental agreement between Planning, Building and Development and SWALCO was maintained for Planning, Building and Development to inform the developers of subdivisions and commercial projects to recycle construction waste. Thresholds for the agreement are as follows:

- Any proposed subdivision containing 5 or more lots (with 5 or more new homes) and,

- Any non-residential development, including additions, consisting of new floor area in the amount of 10,000 square feet or more.

Measurable Goal(s), including frequencies: Number of applicants informed of the program during the building permit application process.

D.4 Site Plan Review Procedures
Site plan review process

Measurable Goal(s), including frequencies: Conduct reviews of site plans for compliance with soil erosion and sediment control requirements and for incorporation of best management practices. Dedicate adequate and qualified staff to these review assignments.

D.5 Public Information Handling Procedures
Establish procedures for processing information received from the public about active or proposed construction activities. Dedicate adequate trained staff to receive and process public inquiries or complaints.

Measurable Goal(s), including frequencies: Number of public inquiries processed. Public satisfaction with staff response.

D.6.1 Site Inspection/Enforcement Procedures
Conduct construction site inspections.

Measurable Goal(s), including frequencies: Number of site inspections completed. Deficiencies noted and compliance achieved. Inspect critical construction sites monthly or after rain events greater than 0.5 inches.

D.6.2 Site Inspection/Enforcement Procedures
The Lake County Division of Transportation will hold pre-construction meetings with the contractor to review site requirements and the soil erosion and sediment control plan for all highway improvement projects. The SMC field inspector will be invited to participate in these meetings.

Measurable Goal(s), including frequencies: Contractor compliance with plan requirements.

D.6.3 Site Inspection/Enforcement Procedures
The Lake County Department of Planning, Building and Development will hold pre-construction meetings with the contractor to review site requirements and the soil erosion and sediment control plan for all new subdivision developments. The site development field inspector will be invited and will participate in these meetings.

Measurable Goal(s): Contractor compliance with plan requirements.

D.7 Other Construction Site Run-off Controls
The Lake County Division of Transportation initiated a program to hire an engineering consultant to provide independent performance reviews and inspections of construction sites during the construction season. The consultant reviewed site compliance with the SWPPP, prepared inspection reports and records associated with NPDES Phase II requirements and regularly evaluated the overall performance of the site BMP's while noting any deficiencies in the SWPPP for correction or modification. LCDOT staff to continue to provide post-storm event inspections and associated record keeping.

Measurable Goals: Number of site reviews conducted during Year 8, individual and collective jobsite compliance with NPDES Phase II performance measures, number of SWPPP deficiencies noted and corrected.

5. Post-Construction Runoff Control
As described above, the Lake County Watershed Development Ordinance (WDO) establishes the minimum stormwater management requirements for development in Lake County. The WDO establishes standards for post-construction site runoff control. These standards apply to any new development or redevelopment

resulting in over 0.5 acres of new impervious area. The enforcement of the WDO implements BMPs as described below.

E.2 Regulatory Control Program

The adopted Watershed Development Ordinance minimum standards require that all applicants adopt a storm water management strategy for controlling post-construction runoff. The applicant must develop a storm water management strategy that minimizes the increase in runoff volumes and rates and addresses the water quality treatment requirements of the ordinance. The proposed drainage plan must use the runoff reduction hierarchy in the ordinance and implement BMPs as required. The ordinance also requires the use of buffers when adjacent to existing water bodies.

Measurable Goal(s), including frequencies: Continue to enforce the existing ordinance. All disturbed areas must be stabilized before final approval of a project. Implementation of necessary BMP's.

E.3 Long Term O&M Procedures

The adopted Watershed Development Ordinance minimum standards require that a maintenance plan be prepared for all storm water management system components for Major Developments (as defined in the ordinance). The maintenance plan must include: maintenance tasks, the party responsible, a description of all permanent public or private access maintenance easements and overland flow paths and compensatory storage areas and a description of dedicated sources of funding for the required maintenance.

Measurable Goal(s: This is an established program. Continue to enforce the existing ordinance.

E.4 Pre-Construction Review of BMP Designs

A plan review is conducted for all soil erosion and sediment control plans submitted. This includes a review of the proposed BMPs for post-construction runoff control.

Measurable Goal(s): This is an established program. Continue to enforce the existing ordinance.

E.5 Site Inspections During Construction

The adopted Watershed Development Ordinance provides both the recommended and the minimum requirements for site inspections. Enforcement officers may inspect a site development at any stage in the construction process. For major developments, the enforcement officer shall conduct site inspections, at a minimum, upon completion of installation of sediment and runoff control measures and after final stabilization and landscaping, prior to removal of sediment controls.

Measurable Goal(s): Continue to enforce the existing ordinance.

E.6 Post-Construction Inspections

The enforcement officer shall conduct post-construction inspections prior to the release of performance guarantees, maintenance guarantees or certificates of occupancy as provided for in the ordinance.

Measurable Goal(s): Continue to enforce the existing ordinance.

6. Pollution Prevention/Good Housekeeping

This portion of the program involves the implementation of the operation and maintenance program to reduce the discharge of pollutants from municipal operations and a training program for municipal employees. Lake County commits to implementation of BMPs as described below.

F.1 Employee Training Program

Lake County will develop a training program for employees. Any new training materials will be developed based on guidance that is widely available. Lake County will also evaluate and incorporate existing employee training programs into this program. The training program will be updated and expanded as Lake County continues to implement its storm water management programs.

Measurable Goal(s), including frequencies: Develop employee training program specific to County operations and facilities. Conduct annual training for employees that will implement or utilize BMPs. Design and conduct employee spill control training in Year 8.

F.2.1 Inspection and Maintenance Program

The MS4 will examine and subsequently alter their own actions to help ensure a reduction in the amount and type of pollution that: (1) collects on streets, parking lots, open spaces, and storage and vehicle maintenance areas and is discharged into local waterways; and (2) results from actions such as environmentally damaging land development and flood management practices or poor maintenance of storm sewer systems.

Measurable Goals: Establish a schedule for street sweeping to reduce the amount of pollution (sand, salt, leaves, etc) that accumulates on streets, which has the potential to reach waterways as runoff. Implement street sweeping at established annual frequency and document. Establish a schedule for visual storm sewer inspection. Inspect storm sewers at established annual frequency and document. Schedule maintenance as needed. Develop and implement an operations and maintenance program for detention and water quality ponds to ensure that they are operating to maximize water quality benefits and detention storage. Include formal inspection schedule, inspection checklist and record-keeping procedures. (Depending upon level/type of implementation, related measurable goals could also be applied to F.4.) Continue to distribute educational materials on spill prevention and control procedures to targeted County employees. (Depending upon level/type of implementation, related measurable goals could also be applied to F.4.)

F.2.2 Inspection and Maintenance Program

Develop and implement a spill prevention and control plan for Lake County-owned facilities.

Measurable Goal(s): Plan is in place at the Division of Transportation. Continue development and implementation for other county facilities during Year 8. Update and train employees on the operational considerations of the plan elements during Year 8.

F.3.1 Municipal Operations Storm Water Control

Storm sewer system and catch basin inspection and cleaning program. Annually inspect 5% of system, and clean as needed. Lake County to expand program coverage in Year 8.

Measurable Goal(s): Percentage of the system inspected and cleaned.

F.3.2 Detention Basin Maintenance Program

The Lake County Division of Transportation inventoried County-owned detention basins in 2003-2004. These inventories include basin features such as outlet structures, emergency overflow spillways and basin type. GPS coordinates were collected for incorporation of these inventories into GIS database.

Basins inspected by maintenance personnel and necessary maintenance work items completed semi-annually. Prescriptive burns completed on two basins that incorporate prairie landscapes.

Measurable Goals: Semi-annually inspect and perform necessary maintenance on all County-owned storm water detention basins. Keep GIS Detention Basin inventory updated. Condition and functionality of detention basins.

F.4 Municipal Operations Waste Disposal

Municipal Operations Waste Disposal - Incorporate waste disposal procedures into the facilities programs described above in F.2.1 and F.2.2.

Measurable Goal(s): Percentage of waste disposed of properly.

F.6 Other Municipal Operations Controls

Highway sweeping

Measurable Goal(s), including frequencies: Lane miles swept and frequency of sweeping during Year 8.

Part E. Notice of Qualifying Local Program

The Lake County Stormwater Management Commission (SMC) will serve as a Qualifying Local Program (QLP) for MS4s in Lake County. As outlined in the General Permit, SMC will perform functions related to each of the six minimum control measures. **As part of the second NOI, SMC created a SMPP template that can be reviewed and revised by each MS4, to enhance their existing program.** Part E of the Annual Report, which outlines the activities performed by SMC as the Qualifying Local Program, consists of the following 5 subparts:

- **Part E1** summarizes and describes any changes to Best Management Practices (BMPs) originally outlined for Year 7 from the Year 6 Annual Report.
- **Part E2** describes the status of BMPs and measurable goals performed in Year 7.
- **Part E3** provides the results of information or data collected during Year 7.
- **Part E4** describes BMPs and measurable goals for the program for Year 8.
- **Part E5** lists the construction projects funded by the QLP during Year 7 of the permit.

Part E1. Changes to Best Management Practices

Note: **X indicates BMPs performed that were proposed in your NPDES permit**
✓ indicates changes to BMPs proposed in your NPDES permit

Year 7	
QLP	
A. Public Education and Outreach	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
X	A.3 Public Service Announcement
X	A.4 Community Event
X	A.5 Classroom Education Material
X	A.6 Other Public Education
B. Public Participation/Involvement	
X	B.1 Public Panel
	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
	B.4 Public Hearing
	B.5 Volunteer Monitoring
X	B.6 Program Coordination
	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
	C.3 Detection/Elimination Prioritization Plan
	C.4 Illicit Discharge Tracing Procedures
	C.5 Illicit Source Removal Procedures
	C.6 Program Evaluation and Assessment
	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
	C.9 Public Notification
	C.10 Other Illicit Discharge Controls

Year 7	
QLP	
D. Construction Site Runoff Control	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
X	D.7 Other Construction Site Runoff Controls
E. Post-Construction Runoff Control	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
X	E.7 Other Post-Const Runoff Controls
F. Pollution Prevention/Good Housekeeping	
X	F.1 Employee Training Program
	F.2 Inspection and Maintenance Program
	F.3 Municipal Operations Storm Water Control
	F.4 Municipal Operations Waste Disposal
X	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

Part E2. Status of Compliance with Permit Conditions

The Lake County Stormwater Management Commission (SMC) will serve as a Qualifying Local Program for MS4s in Lake County. As part of ongoing services, SMC will perform functions related to each of the six minimum control measures. The status of BMPs and measurable goals performed in Year 7 are described below.

SMC revised the Stormwater Management Program Plan (SMPP) template, previously completed in Year 6, to address new requirements in the ILR40 General Permit effective April 1, 2009. SMC created 3 tracking forms describing the commitments in the SMPP (annual, as needed, and on going) for the use of the MS4s.

1. Public Education and Outreach

A.1Distributed Paper Material

Measurable Goals: Distribute informational materials from "take away" rack at SMC. Upon request, distribute materials directly to municipalities for local distribution.

Various NPDES II related information is available on SMC's "take away" rack and on its website. Information is distributed to MS4s in PDF format for use on MS4 websites, newsletters, and takeaway racks.

A.3Public Service Announcement

Measurable Goals: Include public service announcement highlighting community accomplishments related to the NPDES Phase II process in "Mainstream" once annually.
Post watershed identification signage with LCDOT.

The SMC coordinated with Municipal Advisory Committee members on the development of (3) video Public Service Announcements (PSAs) focusing on nonpoint source pollution BMPs for homeowners. The videos were sent to MS4s for use on websites and public cable access channels. One article was featured in "Mainstream" on local MS4 activities. Watershed planning signs are located throughout the county.

A.4Community Event

Measurable Goals: Conduct or Co-sponsor workshop on NPDES related topic.

A NPDES Workshop was held on June 2, 2009.
A EPA Clean Water Act Webcast was held on July 1, 2009.
Two watershed tours were held; Dead and Kellogg Creek Watershed Tour(Aug. 8, 2009) and North Branch of the Chicago River Watershed Tour(Oct. 16, 2009).
Two de-icing BMP workshops were held on Sept. 29 & 30, 2009 for municipal public works operations and private snow removal firms.

BMP No. A.5: Classroom Education

Measurable Goals: Develop and compile information for stormwater educational kit for distribution upon request.
Provide materials and training on storm sewer inlet stenciling kits to teachers upon request.

No educational materials were requested.

A.6 Other Public Education

Measurable Goals: Maintain and update the NPDES Phase II portion of the SMC website with resource materials such as model ordinances, case studies, brochures and web links.

As information becomes available, it is posted and/or distributed to MS4s.

2. Public Participation/Involvement

B.1 Public Panel

Measurable Goals: -Provide notice of public meetings on SMC website.
-Track number of meetings conducted.

Notice of all public meetings was provided by the SMC on its website. The SMC tracked the number of Stormwater Management Committee Board (SMC) meetings, Technical Advisory Committee (TAC) meetings, and Watershed Management Board (WMB) meetings held during the 2009 fiscal year. According to records, there were 11 SMC meetings, 12 TAC meetings, 4 MAC meetings, and 1 WMB meeting conducted during this period.

B.3 Stakeholder Meeting

Measurable Goals: Provide notice of stakeholder meetings on SMC website.
Track number of watershed planning committee meetings conducted.
Establish watershed planning committees for each new watershed planning effort.

Notice of all stakeholder meetings was provided by SMC on their website's calendar of events. SMC tracked the number of stakeholder meetings for the various committees held during the 2009 fiscal year. The list below provides the stakeholder meeting and number of occurrences during the 2009 fiscal year:

North Branch Planning Committee – 4
Bull's Brook/Bull Creek – 5
North Mill Creek- 1

B.6 Program Coordination

Measurable Goals: Track number of MAC meetings conducted during Year 7.
Prepare draft report on Qualifying Local Program activities at end of Year 7.

Four Municipal Advisory Committee (MAC) meetings were held during Year 7 of the permit. The status of QLP activities at the end of Year 7 is provided in Part E2 of the Annual Facility Inspection Report (Annual Report) for each BMP which SMC committed to in the General Permit. The QLP measurable goals for Year 8 are in Part E4 of the Annual Report.

3. Illicit Discharge Detection and Elimination

BMP No. C.2: Regulatory Control Program
Measurable Goal: Continue to enforce the countywide WDO.

SMC continues to enforce the countywide WDO.

4. Construction Site Runoff Control

D.1Regulatory Control Program
Measurable Goals: Continue to enforce the countywide WDO.
Complete TRM updates, approve and publicize final TRM.
Revise WDO to be consistent with new ILR10 permit conditions.

SMC continues to enforce the countywide WDO, TRM revision process on-going. DECI program implemented and administered.

D.2Erosion and Sediment Control BMPs
Measurable Goal: Continue to enforce the countywide WDO.
Complete TRM updates, approve and publicize final TRM.
Recommend measures to address this BMP in SMPP template.

SMC continues to enforce the countywide WDO.
TRM update process is still ongoing. Sections 1, 2, 5 and 7 have been approved and are available for download off the SMC website.

D.3Other Waste Control Program
Measurable Goal: Enforce WDO provisions regarding the control of waste and debris at construction sites.

SMC continues to enforce the countywide WDO.

BMP No. D.4: Site Plan Review Procedures
Measurable Goals: Track number of enforcement officers who have passed the exam.
Track number of communities that undergo a performance review.
Complete Ordinance Administration Chapter of TRM.

There are currently 93 EOs who have passed the EO exam.
No communities underwent a performance review during the 2009 fiscal year.

Chapter 7 of the TRM, Ordinance Administration, was completed and approved.

BMP No. D.5: Public Information Handling Procedures
Measurable Goal: Track number of complaints received and processed related to soil erosion and sediment control.
Recommend measures to address this BMP in SMPP template.

8 SE/SC complaints were received and processed.

BMP No. D.6: Site Inspection/Enforcement Procedures
Measurable Goals: Track number of site inspections conducted by SMC.

Between March 2009 and March 2010, approximately 688 site inspections were conducted.

5. Post-Construction Runoff Control

BMP No. E.2: Regulatory Control Program
Measurable Goal: Continue to enforce the countywide WDO.

SMC continues to enforce the countywide WDO.
Approximately 179 violation notifications were resolved successfully between March 2009 and March 2010.

BMP No. E.3: Long Term O&M Procedures
Measurable Goal: Continue to enforce the countywide WDO.

SMC continues to enforce the countywide WDO.

BMP No. E.4: Pre-Construction Review of BMP Designs
Measurable Goal: Continue to enforce the countywide WDO.

SMC continues to enforce the countywide WDO.

BMP No. E.5: Site Inspections During Construction
Measurable Goal: Continue to enforce the countywide WDO.

SMC continues to enforce the countywide WDO.

BMP No. E.6: Post-Construction Inspections
Measurable Goal: Continue to enforce the countywide WDO.

SMC continues to enforce the countywide WDO.

BMP No. E.7: Other Post-Construction Runoff Controls
Measurable Goals: Conduct annual WMB meeting.

Contribute funding to flood reduction and water quality improvement projects, including BMP retrofits, through the WMB.

The annual WMB meeting was held on December 10, 2009. There were 13 BMP construction projects approved for WMB funding.

6. Pollution Prevention/Good Housekeeping

BMP No. F.1: Employee Training Program

Measurable Goal: *Provide list of available resources to MS4s.*
Provide ILR-10 and ILR-40 Training Workshop.
Purchase and make available the Excal Visual Municipal Storm Water Pollution Prevention Storm Watch Everyday Best Management Practices Software.

SMC continually passes along information on training opportunities and resources to MS4's.
8 entities borrowed the Excal Software.

BMP No. F.5: Flood Management/Assess Guidelines

Measurable Goal: *Track number of projects that are reviewed for multi-objective opportunities.*

Part E3. Information and Data Collection Results

Year 7 activities consisted primarily of permit program planning efforts. Therefore, no information or monitoring data was collected during this period.

Part E4. Summary of Year 7 Stormwater Activities

The table shown below summarizes the BMPs committed to for Year 7. Specific BMPs and measurable goals for Year 7 program development activities are presented in the sections following the table.

Note: X indicates BMPs committed to for Year 7.

Year 7 QLP	
A. Public Education and Outreach	
X	A.1 Distributed Paper Material
	A.2 Speaking Engagement
X	A.3 Public Service Announcement
X	A.4 Community Event
X	A.5 Classroom Education Material
X	A.6 Other Public Education
B. Public Participation/Involvement	
X	B.1 Public Panel
	B.2 Educational Volunteer
X	B.3 Stakeholder Meeting
	B.4 Public Hearing
	B.5 Volunteer Monitoring
X	B.6 Program Coordination
	B.7 Other Public Involvement
C. Illicit Discharge Detection and Elimination	
	C.1 Storm Sewer Map Preparation
X	C.2 Regulatory Control Program
	C.3 Detection/Elimination Prioritization Plan
	C.4 Illicit Discharge Tracing Procedures
	C.5 Illicit Source Removal Procedures
	C.6 Program Evaluation and Assessment
	C.7 Visual Dry Weather Screening
	C.8 Pollutant Field Testing
	C.9 Public Notification
X	C.10 Other Illicit Discharge Controls

Year 7 QLP	
D. Construction Site Runoff Control	
X	D.1 Regulatory Control Program
X	D.2 Erosion and Sediment Control BMPs
X	D.3 Other Waste Control Program
X	D.4 Site Plan Review Procedures
X	D.5 Public Information Handling Procedures
X	D.6 Site Inspection/Enforcement Procedures
X	D.7 Other Construction Site Runoff Controls
E. Post-Construction Runoff Control	
	E.1 Community Control Strategy
X	E.2 Regulatory Control Program
X	E.3 Long Term O&M Procedures
X	E.4 Pre-Const Review of BMP Designs
X	E.5 Site Inspections During Construction
X	E.6 Post-Construction Inspections
X	E.7 Other Post-Const Runoff Controls
F. Pollution Prevention/Good Housekeeping	
X	F.1 Employee Training Program
	F.2 Inspection and Maintenance Program
	F.3 Municipal Operations Storm Water Control
	F.4 Municipal Operations Waste Disposal
X	F.5 Flood Management/Assess Guidelines
	F.6 Other Municipal Operations Controls

1. Public Education and Outreach

A.1 Distributed Paper Material

The SMC develops and distributes a variety of materials related to stormwater management in Lake County. SMC prepares a quarterly newsletter, "Mainstream" as well as an Annual Report that highlights the stormwater management activities in Lake County. SMC also prepares Project Fact Sheets that provide information on ongoing and recently completed stormwater management projects. SMC will develop or collaborate on manuals or manual updates related to stormwater management.

Measurable Goals: Distribute informational materials from "take away" rack at SMC.
Upon request, distribute materials directly to municipalities for local distribution.

A.3 Public Service Announcement

A public service announcement related to the NPDES Phase II program will be written and included in the Quarterly Newsletter, "Mainstream." SMC will coordinate with Lake County Department of Transportation (LCDOT) to post watershed identification signage in watersheds where watershed planning activities occur.

Measurable Goals: Include public service announcement highlighting community accomplishments related to the NPDES Phase II process in "Mainstream" once annually.
Post watershed identification signage with LCDOT.

A.4 Community Event

The SMC sponsors technical training and public awareness workshops. SMC and the local APWA chapter will co-sponsor a workshop on best management practices to protect water quality.

Measurable Goals: Conduct or Co-sponsor workshop on NPDES related topic.

BMP No. A.5: Classroom Education

The SMC will contribute to the development and compilation of a stormwater educational material kit for local teachers.

Measurable Goals: Develop and compile information for stormwater educational kit for distribution upon request.
Provide materials and training on storm sewer inlet stenciling kits to teachers upon request.

A.6 Other Public Education

The SMC operates a website that provides many resources for citizens, developers, engineers, and municipalities. The website includes pages such as "Citizens Assistance", "Watershed Planning,""Projects," "Best Management Practices," "Publications," "Press

Releases" and "Links." These pages provide notices of upcoming meetings, ongoing projects, and publications with download of many SMC documents, and links to other NPDES II and BMP resources.

Measurable Goals: Maintain and update the NPDES Phase II portion SMC website with resource materials such as model ordinances, case studies and brochures.

2. Public Participation/Involvement

The SMC will support Lake County MS4s by performing activities and services related to the Public Participation/Involvement minimum control measure.

B.1 Public Panel

The SMC coordinates and conducts public meetings and committee meetings that include public representation. A monthly Stormwater Management Commission meeting is open to the public and also includes the SMC Board of Commissioners, which includes six municipal representatives and six county board members.

The Technical Advisory Committee (TAC) was started in 1992 to assist in the development, revision and review of the Watershed Development Ordinance (WDO) standards and administrative procedures. TAC is made up of representatives from the development, environmental, municipal and consultant engineering fields. TAC meetings are held monthly or on an as-needed basis.

The Municipal Advisory Committee (MAC) is made up of municipal, township, drainage district, consulting and county representatives. The MAC will continue to meet as needed during the implementation of the NPDES Phase II stormwater management program.

The Watershed Management Boards (WMBs) meet yearly to make recommendations on BMP project funding. Members include chief municipal elected officials, township supervisors, drainage district chairs, and county board members from each district within the boundaries of the watersheds.

Measurable Goals: Provide notice of public meetings on SMC website.
Track number of meetings conducted.

B.3 Stakeholder Meeting

The SMC is actively involved in watershed planning throughout Lake County. SMC believes that the watershed planning process cannot happen and will not be successful without the input, interest and commitment of stakeholders. Stakeholders may include municipalities, townships, drainage districts, homeowner associations, developers, county agencies, lakes management groups, landowners and local, state and federal agencies.

Measurable Goals: Provide notice of stakeholder meetings on SMC website.
Track number of watershed planning committee meetings conducted.

Establish watershed planning committees for each new watershed planning effort.

B.6 Program Coordination

The Countywide Approach to NPDES Phase II Permitting Summary identifies the role of SMC as a Qualifying Local Program. The SMC proactively formed the Municipal Advisory Committee (MAC) to facilitate coordination of the NPDES Phase II stormwater program in Lake County. SMC also prepared a presentation that can be used by municipal representatives to inform their board members about the NPDES II program and how it will be implemented in Lake County through existing local resources and programs. The SMC will continue to coordinate the program and provide guidance for the regulated MS4s by continuing to facilitate MAC meetings through the program implementation phase. SMC will prepare a draft report on the Qualifying Local Program activities and provide guidance to MS4s in preparing their annual reports.

Measurable Goals: Track number of MAC meetings conducted during Year 7.
Prepare draft report on Qualifying Local Program activities at end of Year 7.

3. Illicit Discharge Detection and Elimination

MS4s are required to perform activities related to the Illicit Discharge Detection and Elimination (IDDE) minimum control.

BMP No. C.2: Regulatory Control Program

The SMC provided model ordinance examples for MS4s to consider at the local level. The model ordinance language will prohibit non-storm water discharges to the storm sewer or drainage system. Additionally, the WDO includes provisions, which prohibit illegal dumping to the storm sewer or drainage system.

Measurable Goal: Continue to enforce the countywide WDO.

BMP No. C.10: Other Illicit Discharge Controls

Measurable Goal: Host and track number of attendees at the Illicit Discharge Detection and Elimination Training Workshop

4. Construction Site Runoff Control

Lake County has adopted a Watershed Development Ordinance (WDO) that establishes the minimum stormwater management requirements for development in Lake County. The WDO, which is enforced by SMC as well as by certified communities in the county, establishes standards for construction site runoff control. The enforcement of the WDO, in conjunction with other SMC activities and functions implements BMPs, as described below.

D.1 Regulatory Control Program

The WDO has been adopted as the regulatory mechanism to require erosion and sediment controls for construction activities in Lake County. The soil erosion and sedimentation

control performance standards are included in Article IV, Section B.1.j. of the WDO. At a minimum, these standards apply to any development that hydrologically disturbs 5,000 square feet or more.

SMC initiated a Designated Erosion Control Inspector (DECI) Program, which originated out of an assessment of WDO implementation during the original NOI period. The purpose of the DECI program is to facilitate positive communication between the permit issuing agency or community and the permit holder by creating a single point of contact for soil erosion/sediment control issues with the idea that it is easier to prevent soil erosion and sediment control problems than it is to correct them after they have occurred. Further, the program is intended to improve site conditions, minimize environmental impacts, and educate contractors/developers/inspectors about proper soil erosion/sediment control Best Management Practices. The DECI program was designed to closely mirror the inspection requirements of the IEPA NPDES Phase II permit (for individual construction sites).

Measurable Goals: *Continue to enforce the countywide WDO.*
Administer the Designated Inspector Program as outlined by the WDO.
Revise WDO to be consistent with new ILR10 permit conditions.

D.2 Erosion and Sediment Control BMPs

Article IV, Section B.1.j of the WDO specifies the required soil erosion and sediment control measures for any land disturbance activity. This section of the WDO includes 15 requirements for soil erosion and sediment control measures including: minimize soil disturbance; protect adjoining properties from erosion and sedimentation; complete installation of soil erosion and sediment control features prior to commencement of hydrologic disturbance; stabilize disturbed areas within 14 days of active disturbance; avoid disturbance of streams and when possible, size measures appropriate to the amount of tributary drainage area; protect functioning storm sewers from sediment; prevent sediment from being tracked onto adjoining streets; limit earthen embankments to slopes of 3H:1V; identify soil stockpile areas; and utilize statewide standards and specifications as guidance for soil erosion and sediment control.

The SMC has also prepared the Technical Reference Manual (TRM) for the WDO. The TRM is used to guide compliance with the WDO and provides detailed information on soil erosion and sedimentation control BMPs. The TRM is currently being updated and expanded to include BMP guidance chapters on Wetland Areas, Public Roadways, and Ordinance Administration and Enforcement.

Measurable Goal: *Continue to enforce the countywide WDO.*
Complete TRM updates, approve and publicize final TRM.
Revise WDO to be consistent with new ILR10 permit conditions.

D.3 Other Waste Control Program

The WDO includes provisions regarding the control of waste and debris at construction sites.

Measurable Goal: Enforce WDO provisions regarding the control of waste and debris at construction sites.

BMP No. D.4: Site Plan Review Procedures

Within each jurisdiction, one of the primary duties of the enforcement officer is to review all Watershed Development Applications and issue permits for those projects that are in compliance with the provisions of the WDO. SMC provides training for all new enforcement officers and enforcement officers must pass an exam in order to be certified. SMC periodically reviews all certified communities' Ordinance enforcement records and performance. Ongoing updates to the TRM include the addition of sections that discuss Ordinance Administration and Enforcement.

Measurable Goals: Track number of enforcement officers who have passed the exam.
Track number of communities that undergo a performance review.
Complete Ordinance Administration Chapter of TRM.

BMP No. D.5: Public Information Handling Procedures

The SMC provides a number of opportunities for receipt and consideration of information submitted by the public. The Citizen Inquiry Response System (CIRS) documents and tracks the resolution of reported problems and citizen complaints. SMC's website provides information on "Who to call" for various problems or concerns. An Interagency Coordination Agreement between SMC and the U.S. Army Corps of Engineers, the Lake County Soil and Water Conservation District and the National Resources Conservation Service specifies that if any of these agencies receive a report of a soil erosion and sediment control issue, they will contact SMC. SMC will then investigate the report and prescribe corrective action to the property owner or coordinate with the certified community to find a solution.

Measurable Goal: Track number of complaints received and processed related to soil erosion and sediment control.

BMP No. D.6: Site Inspection/Enforcement Procedures

Article VI of the WDO provides both the recommended and the minimum requirements for site inspection. The enforcement officers within each certified community must conduct site inspections. SMC has direct responsibility for non-certified communities, LCDOT, and the Lake County Forest Preserve. Article VII of the WDO specifies the penalties and legal action that may be imposed if the WDO is violated. If a construction site is not in compliance with the requirements of the WDO, the jurisdictional enforcement officer may issue a stop work order on all development activity on the subject property or on the portion of the activity in direct violation of the WDO. In addition, failure to comply with any of the requirements of the WDO constitutes a violation, and any person convicted thereof may be fined.

Measurable Goals: Track number of site inspections conducted by SMC.

5. **Post-Construction Runoff Control**

As described above, the Lake County Watershed Development Ordinance (WDO) establishes the minimum stormwater management requirements for development in Lake County. The WDO establishes standards for post-construction site runoff control. These standards apply to any new development or redevelopment that results in over 0.5 acres of new impervious area. The enforcement of the WDO, in conjunction with other SMC activities and functions, implements the BMPs, as described below.

BMP No. E.2: Regulatory Control Program

The WDO requires that all applicants adopt a stormwater management strategy for controlling post-construction runoff. The applicant must develop a stormwater management strategy that minimizes the increase in runoff volumes and rates and addresses the water quality treatment requirements of the WDO. The proposed drainage plan must use the runoff reduction hierarchy in the WDO and implement BMPs as presented in the TRM. The WDO also requires the use of buffers when adjacent to existing water bodies.

Measurable Goal: Continue to enforce the countywide WDO.

BMP No. E.3: Long Term O&M Procedures

The WDO requires that a maintenance plan be prepared for all stormwater management system components for Major developments (as defined by the WDO). Enforcement officers may require maintenance plans to be prepared for all development sites that require a NPDES permit. The maintenance plan must include: maintenance tasks; the party responsible for performing the maintenance tasks; a description of all permanent public or private access maintenance easements and overland flow paths, and compensatory storage areas; and a description of dedicated sources of funding for the required maintenance. The TRM includes a sample maintenance plan. The Ordinance also requires that all stormwater management systems be located and described within a deed or plat restriction to ensure perpetuity and access for maintenance.

Measurable Goal: Continue to enforce the countywide WDO.

BMP No. E.4: Pre-Construction Review of BMP Designs

Within each jurisdiction, one of the primary duties of the enforcement officer is to review all Watershed Development Applications and issue permits for those projects that are in compliance with the provisions of the WDO. This includes a review of the proposed BMPs for post-construction runoff control.

Measurable Goal: Continue to enforce the countywide WDO.

BMP No. E.5: Site Inspections During Construction

Article VI of the WDO provides both the recommended and the minimum requirements for site inspection. The enforcement officers for each certified community must conduct these inspections. Enforcement officers may inspect site development at any stage in the construction process. For major developments, the enforcement officer shall conduct site

inspections, at a minimum, upon completion of installation of sediment and runoff control measures and after final stabilization and landscaping, prior to removal of sediment controls.

Measurable Goal: Continue to enforce the countywide WDO.

BMP No. E.6: Post-Construction Inspections
(See description of the inspection program provided under E.5)

Measurable Goal: Continue to enforce the countywide WDO.

BMP No. E.7: Other Post-Construction Runoff Controls
Through the Watershed Management Board (WMB), SMC reviews and partially funds projects related to drainage and water quality improvements. The WMB representing the Lake Michigan, North Branch of the Chicago River, Fox and Des Plaines watersheds – meets yearly to make recommendations on project funding. Members include chief municipal elected officials, township supervisors, drainage district chairs, and county board members from each district within the boundaries of the watershed. The goal of the WMB is to maximize opportunities for local units of government and other groups to have input and influence in local stormwater management problem solving. Projects have improved quality of water in streams and swales, and have enhanced stormwater facilities.

Measurable Goals: Conduct annual WMB meeting.
Contribute funding to water quality improvement projects, including BMP retrofits, through the WMB.

6. Pollution Prevention/Good Housekeeping

This minimum control measure involves the development and implementation of an operation and maintenance program to reduce the discharge of pollutants from municipal operations and an associated training program.

BMP No. F.1: Employee Training Program
The SMC will assist MS4s in developing programs for F.1 by incorporating recommended actions into the SMPP template. Additionally, SMC will serve as technical advisors and as a clearinghouse of information related to employee training BMPs and periodically offer training programs.

Measurable Goal: Provide list of available resources to MS4s.
Make available the Excal Visual Municipal Storm Water Pollution Prevention Storm Watch Everyday Best Management Practices Software.

BMP No. F.5: Flood Management/Assess Guidelines
By adopted policy in the Lake County Stormwater Management Plan, SMC's standard operating procedure is to assess the feasibility of implementing water quality functions in all

flood control designs. SMC will evaluate all SMC-sponsored projects for multi-objective opportunities.

Measurable Goal: *Track number of projects that are reviewed for multi-objective opportunities.*

Part E5. Construction Projects Conducted During Year 7

Project Name	Project Size (acres)	Construction Start Date	Construction End Date

Part F. Construction Projects Conducted During Year 7

Provide a list of construction projects funded by your entity during Year 7 that have impacted an area of one acre of more.

Project Name	Project Size (acres)	Construction Start Date	Construction End Date
Washington St – IL Route 21 to US Route 41	2.0 linear miles	July 2008	May 2010
Darrell Rd at Burnett Rd	0.75 linear miles	October 2008	August 2009
Grass Lake Road at Sun Lake Drain	0.10 linear miles	June 2009	October 2009
Skokie Valley BP – IL Rt 176 to Laurel Ave.	1.5 linear miles	April 2008	September 2009
Fairfield Rd at Nippersink Rd	0.25 linear miles	October 2009	September 2010
Washington St – Cemetery Rd to IL Route 21	0.6 linear miles	October 2009	November 2010
Delany Rd at August Zupec	0.25 linear miles	June 2008	October 2009
Fairfield Rd at Bonner Rd	0.25 linear miles	June 2009	March 2010
North Ave – IL Rt 83 to Deep Lake Rd	3.0 linear miles	September 2009	November 2010
Buffalo Grove Rd – Deerfield to IL Rt 83	0.58 linear miles	August 2009	June 2010
Central Permit Facility - Libertyville	23.3 Acres	August 2008	April 2010
LCPW Hawthorn Woods Water System	7.0 acres	November 2009	October 2010
LCPW 2009 Watermain Replacement	5.0 Acres	May 2009	July 2010
Mundelein Branch Court Parking Lot	1.0 Acre	June 2009	Sept 2009

Appendix

Lake County Division of Transportation

2009 NPDES Outfall Inspection Report

Prepared by Lake County Stormwater Management Commission 11/24/09

INTRODUCTION:

Lake County, Illinois, owns and operates a small municipal separate storm sewer system (MS4) that is subject to the Illinois Environmental Protection Agency (IEPA) National Pollutant Discharge Elimination System (NPDES) General Permit ILR40 (permit). This permit regulates discharges of storm water from MS4s to receiving water bodies.

Lake County Division of Transportation (LCDOT) is the lead agency for implementing the County's NPDES program. LCDOT coordinates the program for agencies that perform activities that must comply with the permit or collect information for program reporting.

Lake County has mapped all of its storm sewers and outlets on the county highway system. They have also implemented the dry weather screening program that was established during the original Notice of Intent (NOI).

In July 2009 LCDOT contracted with the Lake County Stormwater Management Commission (SMC) to perform the Year 6 dry-weather outfall inspections of approximately 1100 outfalls throughout the county.

SMC staff participated in a project kick-off meeting with LCDOT on August 3rd to review inspection procedures and expected deliverables. It was decided that SMC staff would perform all of the outfall inspections and report all potential illicit discharges in Latitudinal and Longitudinal coordinates to the Lake County Health Department Lakes Management Unit (LCHDLMU) so that health department staff would then collect the potential illicit discharge grab samples and perform multi-parameter testing. In addition, a list of all wet discharges was to be provided to the health department in order that ten random samples could be collected and tested for illicit discharges.

LCDOT staff accompanied SMC staff on the first inspection to provide guidance at the start of the project.

INSPECTION PROCESS:

LCDOT provided two hand-held GPS Data Collectors to collect and store outfall data and a storm sewer outfall map to be used as a guide for the dry weather outfall screening. Staff scheduled the inspections for dry weather days and inspections were not conducted within 24 hours of a measurable rainfall to avoid confusing accumulated stormwater from rain events with true dry-weather discharges.

Outfall characteristics such as presence of flow, outfall damage, deposits, stains and abnormal vegetation were noted. If flow was present at the time of inspection additional characteristics such as odor, color, turbidity and floatables, if present, were noted. Digital photos were taken of each outfall with a GPS camera. These photos along with the inspection and testing results are provided on a separate CD.

SMC staff began outfall inspections and data collection on August 6th, 2009 in the northeast corner of the county. Initially, staff worked separately, each utilizing a hand-held GPS unit. One of the units did not work well on a consistent basis and staff determined that essential field time was being lost as a result. That GPS unit was

returned to LCDOT and SMC staff completed the remaining data collection and inspection process as a two member team. Working as a team significantly enhanced staff safety, ensured completeness of the data collection process and improved efficiency.

Staff designated areas for outfall inspection prior to the commencement of daily field work. The areas of inspection were chosen based on traffic flow, visibility and time of day. High traffic areas were avoided during the morning rush hours. There were a total of 1093 outfalls that were inspected. Staff completed approximately 110 outfalls per day, a rate of roughly 4 minutes per outfall.

If a potential illicit discharge was observed, SMC staff noted the location displayed on the GPS as a Northing and Easting by State Plane Coordinates. This information was then emailed to the SMC GIS Analyst to convert to Latitude/Longitude. The information was then forwarded to the LCHDLMU, which planned to return to the location for multi-parameter testing of grab samples, with the expectation that a legitimate illicit discharge would be continuous and indicators would remain present at a later testing date.

A list of nine potential illicit discharge locations was compiled at the conclusion of the field survey work by SMC staff on September 15th, 2009. SMC was notified in early October that LCHDLMU's schedule would not allow testing until early November. Therefore SMC staff planned to return to each potential illicit discharge location and perform multi-parameter field testing for a grab sample taken at each location utilizing an Illicit Discharge Detection field test kit.

FINDINGS:

Of the 1093 outfalls inspected, 622 were inspected in a dry condition, 401 had visible flow or standing water, and 70 were recorded as "other". Those noted as "other" generally no longer exist, were under construction, could not be found or could not be accessed.

Sediment buildup was noted as a primary condition of many of the outfalls. Sediment buildup was recorded as a percentage, with the following breakdown:

- 12 outfalls 25% obstructed with sediment
- 49 outfalls 50% obstructed with sediment
- 23 outfalls 75% obstructed with sediment
- 17 outfalls 90% obstructed with sediment
- 26 outfalls 100% obstructed with sediment or buried

Another primary condition noted in the field inspection was the presence of thick vegetation. Thick vegetation has been defined as vegetation growing to a density that would inhibit free outflow. This condition was noted on 34 outfalls.

Of the total 1093 outfalls inspected, there were nine with a potential illicit discharge noted. SMC staff utilized an Illicit Discharge Detection field test kit at locations that exhibited potential illicit discharges during the site re-visit. The kit included a pH probe, and five testing kits which included test materials and procedures for detergents, phenols, chlorine, chloride and ammonia. Latex gloves were worn while collecting and

sampling the discharges. All reagents were disposed of according to the Material Safety Data Sheets (MSDS) that accompanied each field test kit.

On 10/14 and 10/28 SMC staff re-inspected the nine potential illicit discharge outfalls and determined that seven of the nine no longer exhibited any indicators of a potential illicit discharge. The remaining two were tested, using a grab sample, based on the observed indicator, as follows:

Old McHenry Road, LCDOT Object ID #8577, foamy water and high flow noted

- pH 7.75
- Detergents 0.25 – 0.50ppm
- Phenols 0.15ppm
- Chlorine 0.00
- Ammonia 0.00

Quentin Road, LCDOT Object ID #8413, rust colored residue and oily sheen

- pH 7.10
- Detergents n/a
- Phenols inconclusive
- Chlorine n/a
- Chloride n/a
- Ammonia n/a

On 10/29/09 the LCHD collected samples from the two potential illicit discharge locations. Additionally ten random samples were taken and subsequent testing was performed at the health department lab. A summary of testing results follows:

Outfall	Time	Water Temp *C*	Dissolved Oxygen *mg/L*	% Saturation	Conductivity *mS/cm*	pH	Chloride *mg/L*	Total Suspended Solids *mg/L*	Total Iron *mg/L*
8153	7:50 AM	13.67	9.57	92.5	1.016	8.64	85.5	2.5	N/A
8015	8:11 AM	12.19	8.82	81.7	1	8.19	143.0	14.0	N/A
8007	8:54 AM	11.43	5.62	54.3	1.381	7.63	228.0	14.3	N/A
7863	9:25 AM	12.07	10.03	94.2	1.553	7.74	252.0	1.6	N/A
7844	9:38 AM	12.74	5.12	47.6	0.888	7.85	50.0	5.7	N/A
7828	9:55 AM	13.41	5.32	52	1.753	7.79	286.0	1.0	N/A
8559	10:27 AM	12.64	7.1	67	0.938	7.93	127.0	7.4	N/A
8591	11:05 AM	13.19	8.08	78.3	1.023	7.76	117.0	4.7	N/A
8577	11:25 AM	11.48	59.6	60	0.75	7.85	92.5	9.7	N/A
8413	11:39 AM	13.4	8.37	80.5	1.514	7.49	179.0	12.0	1.94
8111	12:10 PM	13.81	3.2	31.9	1.461	7.58	212.0	56.4	N/A
8701	12:40 PM	12.8	9.83	91.4	0.793	8.93	303.0	60.8	N/A

Each sample was also tested for fecal coliform with no reportable results.

CONCLUSION:

The hand help GPS unit was a very useful tool in the collection of data during the outfall screening process. GPS data collection allows data to be downloaded into a GIS layer with pertinent information attached to each outfall location. This process offers an efficient way to access and update the data as needed.

The LCDOT outfall map was very accurate and proved essential to the success of inspecting and reporting on 1093 outfalls throughout Lake County. A number of the outfalls that were not able to be located may result in modifications to the database pending further investigation.

One of the primary concerns through the course of completing the field inspection work for this project was roadside and roadway safety.

Often, the ability to pull off the roadway was not possible, either due to a lack of shoulder, curb, landscaped right-of-way, or other obstruction. In these instances SMC Staff would attempt to park on the nearest side street. This often was not a feasible option because side streets were not in reasonable proximity to the inspection location. Often, SMC Staff was left with no alternative but to park in the roadway, blocking one lane, with yellow Mars lights on the SMC vehicle.

Roadside conditions also posed a safety hazard at times, due to very steep slopes and/or dense vegetation which limited visibility and provided unsafe footing.

The field testing kits and pH meter were obtained through CHEMetrics. The test kits were easy to transport into the field and were straight forward to use. It is important to note that the reagents used in the field testing kits do have expiration dates associated with them. Field staff should ensure that viable testing kits are on hand throughout the year for testing of any potential illicit discharges. Many different parameters can be tested for depending on the industrial and commercial activities occurring upstream of the MS4.

FUTURE RECOMMENDATIONS:

SMC recommends the LCDOT NPDES Outfall Inspection Program implement the following:

- For safety, field crews should utilize a vehicle equipped with warning lights as well as signage (such as Survey Crew Ahead). Signage would be placed in the roadside right-of-way in advance of the survey crew at the start of each inspection location and moved as areas are completed. All traffic control measures should be in accordance with the requirements of the Manual on Uniform Traffic Control Devices and other internal Policies and Procedures as set forth by LCDOT. Personal Protective Equipment should be worn.
- Be prepared to encounter stray animals. Be prepared to identify potentially toxic plants.
- To facilitate and expedite the inspection process, all outfalls on a given County road should be inspected sequentially. In other words, once a road is started, all outfalls on that particular road are inspected until that road is completed. This

helps to track progress, sort outfalls by County road, and expedite overall progress.

- Gloves should be worn when collecting and testing samples. Dispose of reagents in a proper manner as directed by the MSDS.
- Follow-up investigation is recommended for all outfalls with positive indicators for pollutant discharges. Steps should be taken to identify and remove the sources of any detected pollutants.
- Follow-up investigation of outfalls that could not be located should be conducted for possible adjustments of the database.
- Follow-up monitoring of the outfalls should be continued on an as needed basis until the dry weather discharge has been eliminated, or further investigations conclude that the discharge is not a significant source of pollutants.
- LCDOT maintenance staff has been given a list of the outfalls in need of maintenance whether structural or vegetative.

Appendix A – Outfall Data Summary

Object ID	Street Name	Status	Date of Survey	Notes	Discharge	Northing	Easting
7890	21st Street	Dry	8/18/2009		N	1101890.909390	2109631.160900
7960	21st Street	Wet	8/18/2009		N	1109544.152790	2109555.390020
7961	21st Street	Wet	8/18/2009		N	1111437.232860	2109603.535940
7962	21st Street	Dry	8/18/2009		N	1111375.268060	2109605.320260
7963	21st Street	Wet	8/18/2009		N	1109871.634900	2109617.709120
7964	21st Street	Wet	8/18/2009		N	1113033.958100	2109597.410370
7965	21st Street	Dry	8/18/2009		N	1112109.142490	2109599.389250
8144	21st Street	Dry	8/18/2009	thick vegetation	N	1104479.477460	2109677.956930
8145	21st Street	Dry	8/18/2009		N	1102878.955220	2109684.945220
8146	21st Street	Dry	8/18/2009		N	1105931.144660	2109613.874240
8147	21st Street	Dry	8/18/2009		N	1106746.482900	2109667.970370
8167	21st Street	Dry	8/18/2009		N	1104879.772370	2109615.478080
8168	21st Street	Dry	8/18/2009		N	1105699.861200	2109673.446720
7966	33rd Street	Dry	9/3/2009		N	1109211.701460	2101644.822070
7967	33rd Street	Dry	9/3/2009		N	1109936.121300	2101641.223990
7968	33rd Street	Dry	9/3/2009		N	1110570.141400	2101687.932220
7970	33rd Street	Dry	9/3/2009		N	1112663.248860	2101681.938490
7971	33rd Street	Dry	9/3/2009		N	1113539.448030	2101624.181310
7972	33rd Street	Dry	9/3/2009		N	1112068.847320	2101685.209150
7973	33rd Street	Wet	9/3/2009		N	1114122.050520	2101617.855290
7974	33rd Street	Dry	9/3/2009		N	1114113.658840	2101690.507320
7975	33rd Street	Dry	9/3/2009		N	1114116.377560	2101690.646840
7976	33rd Street	Wet	9/3/2009		N	1115903.290840	2101690.175800
7969	33rd Street	Dry	9/3/2009	concrete washout residue	Y	1111399.854550	2101636.065850
7901	9th Street	Dry	8/18/2009		N	1106210.141390	2117471.573070
7902	9th Street	Dry	8/18/2009		N	1109021.777620	2117518.015050
7903	9th Street	Dry	8/18/2009		N	1109724.122580	2117511.977800
7904	9th Street	Dry	8/18/2009		N	1109973.719770	2117509.136460
7905	9th Street	Dry	8/18/2009		N	1109980.429270	2117447.778630
7907	9th Street	Dry	8/18/2009		N	1115070.751190	2117444.384590
7908	9th Street	Dry	8/18/2009		N	1115466.876120	2117447.137610
7909	9th Street	Dry	8/18/2009		N	1115910.049240	2117444.592970
7910	9th Street	Dry	8/18/2009		N	1116071.835360	2117446.065990
7953	9th Street	Dry	8/18/2009		N	1116629.519580	2117505.443660
7954	9th Street	Wet	8/18/2009		N	1117191.196120	2117513.400140
7955	9th Street	Dry	8/18/2009		N	1118089.287390	2117519.261770
7956	9th Street	Dry	8/18/2009		N	1118259.600610	2117449.574470
7957	9th Street	Dry	8/18/2009		N	1118434.301410	2117450.459980
7958	9th Street	Dry	8/18/2009		N	1118960.443870	2117447.116110
7959	9th Street	Dry	8/18/2009		N	1119575.716060	2117506.308940
8183	9th Street	Dry	8/18/2009		N	1097630.621390	2117660.860490
8766	9th Street	Wet	8/18/2009	thick vegetation	N	1114216.162520	2117515.018570
8767	9th Street	Dry	8/18/2009		N	1113697.108440	2117539.236680
8556	Alleghany Road	Other	8/24/2009	does not exist	M	1059961.323940	2061975.961110
8550	Alleghany Road	Dry	8/24/2009		N	1060098.918310	2055184.591630
8551	Alleghany Road	Dry	8/24/2009	75% obstructed with sediment	N	1060088.741030	2055507.990290
8552	Alleghany Road	Dry	8/24/2009	90% obstructed with sediment	N	1060081.991340	2056056.707860
8553	Alleghany Road	Dry	8/24/2009	90% obstructed with sediment	N	1060074.549420	2056564.159760
8554	Alleghany Road	Dry	8/24/2009		N	1060034.059690	2059182.605330
8555	Alleghany Road	Wet	8/24/2009	stagnant standing water	N	1059995.045030	2060923.099920
8557	Alleghany Road	Dry	8/24/2009	thick vegetation	N	1059958.022820	2062759.149080
8558	Alleghany Road	Wet	8/24/2009		N	1059902.515620	2065157.958170
8559	Alleghany Road	Wet	8/24/2009		N	1059892.078500	2065702.710550
8560	Alleghany Road	Dry	8/24/2009		N	1059897.048490	2062693.955350
8561	Alleghany Road	Dry	8/24/2009	50% obstructed with sediment	N	1059894.423980	2062042.625050
8562	Alleghany Road	Wet	8/24/2009	buried	N	1059952.635560	2060072.050450

8563	Alleghany Road	Dry	8/24/2009		N	1060039.154860	2059066.779920
8564	Alleghany Road	Dry	8/24/2009	75% obstructed with sediment	N	1060030.773670	2055554.678290
8565	Alleghany Road	Dry	8/24/2009	90% obstructed with sediment	N	1060034.588330	2055134.776850
8341	Almond Road	Dry	9/2/2009		N	1080268.787640	2072467.194140
8342	Almond Road	Dry	9/2/2009		N	1080444.996030	2071927.501090
8343	Almond Road	Wet	9/2/2009		N	1080359.448760	2072471.149860
8344	Almond Road	Wet	9/2/2009		N	1080300.230590	2072722.276130
8345	Almond Road	Dry	9/2/2009		N	1080270.347960	2067788.931610
8346	Almond Road	Dry	9/2/2009		N	1080268.599990	2068529.776410
8401	Aptakisic Road	Other	9/15/2009	under construction	M	1077601.570740	2009288.931810
8402	Aptakisic Road	Wet	9/15/2009		N	1081647.411130	2009308.205800
8403	Aptakisic Road	Wet	9/15/2009		N	1088713.798850	2009317.541860
8407	Aptakisic Road	Wet	9/15/2009	full of trash	N	1079885.682360	2009421.810150
8408	Aptakisic Road	Wet	9/15/2009		N	1078340.724660	2009397.246690
8409	Aptakisic Road	Wet	9/15/2009		N	1078348.695480	2009394.664420
8410	Aptakisic Road	Dry	9/15/2009		N	1083863.759550	2009294.810600
8411	Aptakisic Road	Dry	9/15/2009		N	1083694.316990	2009467.407840
8114	Arlington Heights Road	Dry	9/15/2009		N	1078680.672440	2003711.733220
8115	Arlington Heights Road	Dry	9/15/2009		N	1078669.643700	2003396.895970
8116	Arlington Heights Road	Wet	9/15/2009		N	1078659.238580	2000787.123160
8755	Arlington Heights Road	Wet	9/15/2009		N	1078617.428150	2000856.544730
8027	Big Hollow Road	Dry	9/14/2009	buried	N	1020740.550270	2075605.258790
8028	Big Hollow Road	Dry	9/14/2009		N	1021508.864640	2075860.310310
8029	Big Hollow Road	Dry	9/14/2009		N	1022094.280320	2076714.329890
8030	Big Hollow Road	Dry	9/14/2009		N	1022231.565190	2076832.545830
8623	Bonner Road	Other	8/31/2009	submerged	M	1026502.910090	2042621.175040
8609	Bonner Road	Dry	8/31/2009		N	1026077.640070	2042557.586950
8619	Bonner Road	Dry	8/31/2009		N	1032393.096080	2043824.325890
8620	Bonner Road	Dry	8/31/2009		N	1032168.673930	2043828.413960
8621	Bonner Road	Wet	8/31/2009		N	1032033.589900	2043830.808580
8622	Bonner Road	Dry	8/31/2009		N	1027994.349190	2042741.145600
8625	Bonner Road	Dry	8/31/2009		N	1034629.891730	2043760.834050
8626	Bonner Road	Dry	8/31/2009		N	1034630.663570	2043817.363970
8627	Bonner Road	Dry	8/31/2009	thick vegetation	N	1043972.300440	2043669.872130
8628	Bonner Road	Wet	8/31/2009		N	1040769.963670	2043759.754500
8629	Bonner Road	Wet	8/31/2009		N	1039433.214870	2043774.672900
8630	Bonner Road	Dry	8/31/2009		N	1031626.352270	2043836.849920
8631	Bonner Road	Dry	8/31/2009		N	1031815.748240	2043833.872900
8391	Buffalo Grove Road	Wet	9/9/2009		N	1086607.172800	2019505.166570
8392	Buffalo Grove Road	Wet	9/9/2009		N	1083920.295360	2010794.624740
8393	Buffalo Grove Road	Wet	9/9/2009		N	1082774.220220	2013169.206500
8394	Buffalo Grove Road	Wet	9/9/2009		N	1082774.990010	2013165.487340
8395	Buffalo Grove Road	Wet	9/9/2009		N	1082775.664570	2013159.939560
8396	Buffalo Grove Road	Wet	9/9/2009		N	1082776.140480	2013155.300330
8397	Buffalo Grove Road	Wet	9/9/2009		N	1084064.522690	2008554.970600
8398	Buffalo Grove Road	Wet	9/9/2009		N	1084160.977090	2003736.936670
8399	Buffalo Grove Road	Wet	9/9/2009		N	1084123.654330	2003836.083940
8400	Buffalo Grove Road	Wet	9/9/2009		N	1083942.701250	2003987.919580
8412	Buffalo Grove Road	Dry	9/9/2009		N	1083903.164610	2009218.241250
8730	Buffalo Grove Road	Wet	9/9/2009		N	1084027.923650	2008585.445600
8654	Butterfield Road	Other	9/14/2009	cannot find	M	1080890.318270	2029910.635000
8655	Butterfield Road	Other	9/14/2009	cannot find	M	1080832.514750	2029914.636540
8618	Butterfield Road	Dry	9/14/2009	50% obstructed with sediment	N	1081364.980410	2039775.605250
8624	Butterfield Road	Dry	9/14/2009		N	1080153.187510	2036292.348670
8648	Butterfield Road	Wet	9/14/2009		N	1081425.689790	2040760.103430
8649	Butterfield Road	Wet	9/14/2009		N	1081440.047290	2040593.884930
8650	Butterfield Road	Wet	9/14/2009		N	1081442.877630	2040223.087110
8651	Butterfield Road	Wet	9/14/2009		N	1081410.986430	2040031.875330
8652	Butterfield Road	Dry	9/14/2009		N	1081400.764860	2039951.847420
8653	Butterfield Road	Dry	9/14/2009		N	1080674.026940	2030328.262650
8656	Butterfield Road	Wet	9/14/2009		N	1080855.678910	2029266.513910
8657	Butterfield Road	Dry	9/14/2009	buried	N	1080724.456630	2028480.823030
8658	Butterfield Road	Dry	9/14/2009		N	1080802.496440	2025882.585590
8731	Butterfield Road	Dry	9/14/2009		N	1080711.660730	2029792.443900
8751	Butterfield Road	Wet	9/14/2009	submerged	N	1081448.667580	2040745.150470

8752	Butterfield Road	Dry	9/14/2009		N	1080826.936510	2028754.302450
8758	Casey Road	Dry	8/24/2009		N	1070817.486510	2059513.634320
8759	Casey Road	Dry	8/24/2009	buried	N	1070972.120240	2059496.401430
8356	Cedar Lake Road	Other	8/24/2009	does not exist	M	1049452.822170	2082893.064740
8360	Cedar Lake Road	Dry	8/24/2009	cannot find	M	1049130.620320	2072719.565340
7807	Cedar Lake Road	Dry	8/24/2009		N	1049441.482400	2087672.850480
8340	Cedar Lake Road	Wet	8/24/2009	submerged	N	1047638.536350	2058190.991380
8352	Cedar Lake Road	Dry	8/24/2009	90% obstructed with sediment	N	1049383.834780	2084826.109740
8353	Cedar Lake Road	Wet	8/24/2009		N	1049572.658330	2081785.909800
8354	Cedar Lake Road	Dry	8/24/2009		N	1050073.010330	2081163.362600
8355	Cedar Lake Road	Dry	8/24/2009	75% obstructed with sediment	N	1049806.294430	2081602.364200
8357	Cedar Lake Road	Wet	8/24/2009		N	1049995.962530	2080179.050020
8358	Cedar Lake Road	Wet	8/24/2009		N	1050016.651680	2077026.183720
8359	Cedar Lake Road	Dry	8/24/2009		N	1049096.181660	2072469.811230
8361	Cedar Lake Road	Dry	8/24/2009		N	1048075.809950	2067803.069210
8362	Cedar Lake Road	Wet	8/24/2009		N	1048150.572190	2068916.323360
8363	Cedar Lake Road	Wet	8/24/2009		N	1048146.979740	2069950.556440
8364	Cedar Lake Road	Wet	8/24/2009		N	1047788.517530	2058389.544980
8739	Cedar Lake Road	Wet	8/24/2009		N	1047786.269080	2058189.809430
8754	Cedar Lake Road	Dry	8/24/2009		N	1047958.362010	2060921.200150
8762	Cedar Lake Road	Wet	8/24/2009		N	1049799.677090	2078210.483750
8763	Cedar Lake Road	Dry	8/24/2009		N	1049791.478170	2078264.627750
8764	Cedar Lake Road	Wet	8/24/2009		N	1050002.862750	2078290.674980
8297	Center Street	Wet	8/24/2009		N	1066502.802350	2068498.515480
8298	Center Street	Dry	8/24/2009		N	1066539.687090	2068570.250520
8299	Center Street	Dry	8/24/2009		N	1066162.319280	2068581.910040
8300	Center Street	Dry	8/24/2009		N	1069652.449460	2068304.764190
8472	Cuba Road	Other	8/31/2009	cannot find	M	1047540.148890	2006784.572390
8476	Cuba Road	Wet	8/31/2009	buried	M	1052325.250720	2006673.489890
8467	Cuba Road	Dry	8/31/2009		N	1053774.795430	2006741.838050
8468	Cuba Road	Dry	8/31/2009		N	1051145.339300	2006761.481950
8469	Cuba Road	Dry	8/31/2009		N	1051047.750050	2006761.168100
8470	Cuba Road	Dry	8/31/2009		N	1049643.725730	2006756.514530
8471	Cuba Road	Dry	8/31/2009		N	1047859.237530	2006769.577950
8473	Cuba Road	Dry	8/31/2009		N	1047561.955480	2006777.592800
8474	Cuba Road	Dry	8/31/2009	75% obstructed with sediment	N	1047891.206300	2006698.786530
8475	Cuba Road	Wet	8/31/2009	75% obstructed with sediment	N	1049888.378270	2006750.238430
8477	Cuba Road	Dry	8/31/2009		N	1052460.527010	2006673.859300
8478	Cuba Road	Wet	8/31/2009		N	1052537.010850	2006671.920610
8479	Cuba Road	Dry	8/31/2009		N	1052611.562400	2006672.616160
8480	Cuba Road	Wet	8/31/2009		N	1054124.647070	2006676.027870
8481	Cuba Road	Dry	8/31/2009		N	1047178.640800	2006708.980190
8482	Cuba Road	Dry	9/15/2009		N	1043246.953880	2006953.108710
8483	Cuba Road	Dry	9/15/2009	buried	N	1038592.750230	2006470.398690
8484	Cuba Road	Dry	9/15/2009		N	1038370.338960	2006568.744670
8485	Cuba Road	Dry	9/15/2009		N	1038384.739990	2006558.760420
8486	Cuba Road	Dry	9/15/2009		N	1038366.576790	2006573.318110
8487	Cuba Road	Dry	9/15/2009	50% obstructed with sediment	N	1038014.040980	2006664.157410
8488	Cuba Road	Dry	9/15/2009	50% obstructed with sediment	N	1038010.612880	2006662.218980
8489	Cuba Road	Dry	9/15/2009		N	1038071.985550	2006643.164900
8490	Cuba Road	Dry	9/15/2009		N	1038215.838870	2006584.495070
8491	Cuba Road	Dry	9/15/2009	50% obstructed with sediment	N	1038344.723350	2006520.450790
8492	Cuba Road	Dry	9/15/2009	50% obstructed with sediment	N	1038712.075160	2006363.466470
8493	Cuba Road	Dry	9/15/2009		N	1039950.983320	2005976.186850
8494	Cuba Road	Dry	9/15/2009		N	1040267.827610	2005923.568610
8495	Cuba Road	Dry	9/15/2009		N	1040888.920730	2005824.110820
8496	Cuba Road	Wet	9/15/2009		N	1041034.850450	2005899.466980
8497	Cuba Road	Dry	9/15/2009	buried	N	1045171.472540	2006727.810020
8498	Cuba Road	Dry	9/15/2009		N	1045273.496220	2006726.333670
8499	Cuba Road	Dry	9/15/2009	buried	N	1045501.292950	2006728.324070
8500	Cuba Road	Wet	9/15/2009		N	1045690.240920	2006725.759460
8607	Darrell Road	Wet	8/31/2009		N	1023480.011650	2032987.153400
8608	Darrell Road	Dry	8/31/2009		N	1023949.734020	2033503.737590
8610	Darrell Road	Wet	8/31/2009		N	1026072.276100	2042301.765890
8611	Darrell Road	Dry	8/31/2009	50% obstructed with sediment	N	1026007.443850	2039207.108610

8612	Darrell Road	Wet	8/31/2009		N	1025762.172300	2046375.222280
8613	Darrell Road	Dry	8/31/2009		N	1025960.800140	2051374.600970
8614	Darrell Road	Dry	8/31/2009		N	1025937.384070	2051509.220110
8615	Darrell Road	Wet	8/31/2009		N	1021223.900290	2061523.891730
8616	Darrell Road	Wet	8/31/2009		N	1023224.878730	2054625.027090
8617	Darrell Road	Dry	8/31/2009		N	1026019.936140	2043653.628680
8065	Deep Lake Road	Other	8/10/2009	inaccessible	M	1057347.996070	2116172.298820
8072	Deep Lake Road	Other	8/10/2009	inaccessible	M	1057304.288160	2109759.259710
8082	Deep Lake Road	Other	8/10/2009	buried	M	1057416.259240	2118083.693640
7822	Deep Lake Road	Dry	8/10/2009		N	1058599.665320	2094141.017140
7823	Deep Lake Road	Dry	8/10/2009	50% obstructed with sediment	N	1058760.743330	2094141.825330
8035	Deep Lake Road	Wet	8/10/2009		N	1057368.414630	2101403.583550
8036	Deep Lake Road	Wet	8/10/2009		N	1057383.833510	2105514.352450
8037	Deep Lake Road	Wet	8/10/2009		N	1057361.071780	2104539.721020
8038	Deep Lake Road	Wet	8/10/2009		N	1057366.416800	2104429.520440
8039	Deep Lake Road	Wet	8/10/2009		N	1057371.720100	2101758.204730
8040	Deep Lake Road	Dry	8/10/2009		N	1058630.393510	2096629.348150
8041	Deep Lake Road	Dry	8/10/2009		N	1058491.995810	2097316.435770
8042	Deep Lake Road	Dry	8/10/2009		N	1058429.606820	2097475.754810
8043	Deep Lake Road	Wet	8/10/2009		N	1057531.777700	2100698.649150
8044	Deep Lake Road	Wet	8/10/2009		N	1057303.429800	2106109.534010
8045	Deep Lake Road	Dry	8/10/2009		N	1057300.488610	2101139.279670
8046	Deep Lake Road	Dry	8/10/2009		N	1057285.190050	2100646.390070
8047	Deep Lake Road	Dry	8/10/2009		N	1057360.972200	2100399.380540
8048	Deep Lake Road	Dry	8/10/2009		N	1057633.731750	2098928.480570
8049	Deep Lake Road	Wet	8/10/2009		N	1057786.899370	2098676.742970
8066	Deep Lake Road	Dry	8/10/2009		N	1057319.571880	2115123.401540
8067	Deep Lake Road	Dry	8/10/2009		N	1057304.704680	2110378.356800
8068	Deep Lake Road	Dry	8/10/2009		N	1057314.140840	2109112.011330
8069	Deep Lake Road	Dry	8/10/2009		N	1057309.656230	2108363.169340
8070	Deep Lake Road	Dry	8/10/2009		N	1057284.467880	2107975.455040
8071	Deep Lake Road	Dry	8/10/2009		N	1057304.152740	2107706.549060
8081	Deep Lake Road	Dry	8/10/2009		N	1057414.734500	2120378.788430
8084	Deep Lake Road	Dry	8/10/2009		N	1057414.762660	2121256.855880
8372	Deerfield Pkwy	Other	9/9/2009	does not exist	M	1090238.948040	2005133.862110
7906	Deerfield Pkwy	Wet	9/9/2009		N	1087842.612420	2005269.969890
8371	Deerfield Pkwy	Wet	9/9/2009		N	1088929.164230	2005324.990430
8373	Deerfield Pkwy	Wet	9/9/2009		N	1088895.546820	2005205.640420
8374	Deerfield Pkwy	Wet	9/9/2009		N	1088879.001790	2005209.158880
8376	Deerfield Pkwy	Dry	9/9/2009		N	1094001.319620	2004155.698140
8377	Deerfield Pkwy	Dry	9/9/2009		N	1094100.281540	2004139.202020
8378	Deerfield Pkwy	Wet	9/9/2009		N	1093304.772040	2004405.302500
8384	Deerfield Pkwy	Wet	9/9/2009		N	1092864.326090	2004342.075870
8385	Deerfield Pkwy	Wet	9/9/2009		N	1092548.512200	2004274.236640
8386	Deerfield Pkwy	Dry	9/9/2009		N	1094699.595460	2003928.355810
8778	Deerfield Pkwy	Dry	9/9/2009		N	1084421.431230	2005490.543840
8375	Deerfield Road	Other	9/9/2009	does not exist	M	1107233.142480	2003997.906140
8379	Deerfield Road	Other	9/9/2009	does not exist	M	1107239.321040	2003994.274780
8380	Deerfield Road	Other	9/9/2009	does not exist	M	1107531.830480	2003991.981540
8381	Deerfield Road	Dry	9/9/2009		N	1107850.072790	2003906.012900
8382	Deerfield Road	Dry	9/9/2009		N	1108083.780560	2003902.017500
8383	Deerfield Road	Dry	9/9/2009	fes undercut by erosion and compromised	N	1108330.291410	2003895.483620
8387	Deerfield Road	Dry	9/9/2009		N	1096378.417610	2004015.073500
8388	Deerfield Road	Dry	9/9/2009		N	1102501.608650	2003896.158940
8389	Deerfield Road	Dry	9/9/2009	submerged	N	1102239.381450	2003960.114140
8390	Deerfield Road	Dry	9/9/2009		N	1098377.126600	2003988.606430
8175	Delany Road	Other	8/18/2009	new storm sewer	M	1100134.673610	2101118.757180
8155	Delany Road	Dry	8/18/2009	75% obstructed with sediment	N	1100131.288520	2089207.100460
8156	Delany Road	Dry	8/18/2009	50% obstructed with sediment	N	1100186.115020	2089175.093810
8157	Delany Road	Wet	8/18/2009		N	1100192.836560	2090006.859820
8170	Delany Road	Wet	8/18/2009		N	1100226.925520	2112175.109960
8171	Delany Road	Dry	8/18/2009		N	1100219.064010	2103110.182200
8172	Delany Road	Dry	8/18/2009		N	1100143.925450	2102916.604220
8174	Delany Road	Dry	8/18/2009		N	1100142.164680	2102850.143550
8205	Delany Road	Wet	8/18/2009		N	1100146.384590	2098526.110260

8206	Delany Road	Wet	8/18/2009		N	1100135.339720	2090772.753710
8211	Delany Road	Dry	8/18/2009		N	1100131.128270	2090422.522160
8212	Delany Road	Wet	8/18/2009		N	1100219.084750	2090544.329520
8213	Delany Road	Wet	8/18/2009		N	1100058.981580	2084335.685930
8214	Delany Road	Wet	8/18/2009	thick vegetation	N	1100049.798350	2083230.669100
8215	Delany Road	Dry	8/18/2009		N	1100068.266440	2082470.666020
8216	Delany Road	Dry	8/18/2009		N	1100059.494350	2081257.658920
8217	Delany Road	Wet	8/18/2009		N	1100150.810830	2081274.419500
8507	Diamond Lake Road	Dry	9/14/2009		N	1073418.096820	2020790.325230
8509	Diamond Lake Road	Dry	9/14/2009	50% obstructed with sediment	N	1073424.801460	2023402.115060
8510	Diamond Lake Road	Dry	9/14/2009		N	1073429.097140	2023641.530610
8511	Diamond Lake Road	Dry	9/14/2009	90% obstructed with sediment	N	1073373.770680	2023912.607730
8512	Diamond Lake Road	Dry	9/14/2009		N	1073426.998960	2026829.684720
8513	Diamond Lake Road	Wet	9/14/2009		N	1073396.349620	2028030.061810
8514	Diamond Lake Road	Dry	9/14/2009		N	1073381.719730	2029453.684730
8515	Diamond Lake Road	Dry	9/14/2009		N	1073386.257080	2029832.794870
8516	Diamond Lake Road	Dry	9/14/2009		N	1073382.804150	2030081.570300
8517	Diamond Lake Road	Dry	9/14/2009		N	1073318.898100	2030217.551610
8518	Diamond Lake Road	Dry	9/14/2009		N	1073324.236210	2029072.739830
8519	Diamond Lake Road	Dry	9/14/2009		N	1073416.754870	2027711.805170
8520	Diamond Lake Road	Dry	9/14/2009		N	1073429.571510	2026354.375920
8521	Diamond Lake Road	Wet	9/14/2009		N	1073370.479030	2024395.156470
8158	Dilleys Road	Dry	9/4/2009		N	1089923.098050	2084561.368870
8159	Dilleys Road	Dry	9/4/2009		N	1089786.731200	2084953.151530
8160	Dilleys Road	Dry	9/4/2009		N	1089857.383110	2084553.552170
8161	Dilleys Road	Dry	9/4/2009		N	1089103.897790	2095053.563440
8218	Dilleys Road	Dry	9/4/2009		N	1090059.071430	2083551.847980
8219	Dilleys Road	Dry	9/4/2009		N	1089095.539390	2095550.376500
8220	Dilleys Road	Dry	9/4/2009		N	1089025.316800	2095547.800880
8221	Dilleys Road	Dry	9/4/2009		N	1089040.499140	2095052.009270
8222	Dilleys Road	Dry	9/4/2009		N	1089094.712770	2093337.041460
8223	Dilleys Road	Dry	9/4/2009		N	1089128.082370	2091923.696950
8224	Dilleys Road	Wet	9/4/2009		N	1089123.790270	2091614.765620
8086	Duffy Ln	Other	9/9/2009	cannot access	M	1106814.597590	2011836.902630
8099	Duffy Ln	Other	9/9/2009	cannot access	M	1106600.517840	2011823.613410
8100	Duffy Ln	Other	9/9/2009	cannot find	M	1107150.571990	2011830.227940
8134	Duffy Ln	Other	9/9/2009	cannot access	M	1106357.256910	2011947.915240
8087	Duffy Ln	Dry	9/9/2009		N	1107603.658710	2011847.909090
8135	Duffy Ln	Dry	9/9/2009		N	1103060.429260	2011878.123490
8136	Duffy Ln	Dry	9/9/2009		N	1099997.941960	2011891.090410
8137	Duffy Ln	Dry	9/9/2009		N	1103928.703950	2011829.541610
8177	Duffy Ln	Dry	9/9/2009		N	1107633.033430	2011931.350250
8178	Duffy Ln	Dry	9/9/2009		N	1107468.261080	2011939.366630
8448	Ela Road	Other	8/31/2009	cannot find	M	1046934.376350	2010591.553510
8444	Ela Road	Wet	8/31/2009		N	1047056.513950	2000564.916700
8445	Ela Road	Dry	8/31/2009		N	1047076.290460	2006215.180260
8446	Ela Road	Dry	8/31/2009	50% obstructed with sediment	N	1047119.297950	2006850.547940
8447	Ela Road	Wet	8/31/2009		N	1047078.874010	2007586.245600
8461	Ela Road	Wet	8/31/2009		N	1047008.115870	2009364.713700
8462	Ela Road	Dry	8/31/2009		N	1047080.475800	2006671.324130
8463	Ela Road	Dry	8/31/2009		N	1047012.248730	2006163.640800
8464	Ela Road	Wet	8/31/2009		N	1047012.823200	2004602.718940
8465	Ela Road	Wet	8/31/2009		N	1046994.839710	2002188.565470
8466	Ela Road	Dry	8/31/2009	50% obstructed with sediment	N	1046985.420190	2000418.604760
7824	Engle Drive	Other	8/7/2009	cannot find	M	1062239.320750	2088741.819180
7816	Engle Drive	Dry	8/7/2009	under construction	N	1056549.482920	2087944.481580
7817	Engle Drive	Dry	8/7/2009		N	1057319.921570	2087829.224240
7818	Engle Drive	Dry	8/7/2009		N	1057751.660450	2087829.063980
7819	Engle Drive	Dry	8/7/2009		N	1059914.524330	2087819.757610
7820	Engle Drive	Wet	8/7/2009		N	1060798.364840	2087867.444530
7821	Engle Drive	Dry	8/7/2009		N	1057989.993380	2087887.235890
7825	Engle Drive	Dry	8/7/2009		N	1064265.694890	2089364.606510
7826	Engle Drive	Wet	8/7/2009		N	1064781.903280	2091676.368950
7827	Engle Drive	Dry	8/7/2009		N	1064208.536490	2088773.331760
7828	Engle Drive	Wet	8/7/2009		N	1064278.600880	2089177.002540

7829	Engle Drive	Dry	8/7/2009		N	1064712.681900	2091642.382900
7830	Engle Drive	Dry	8/7/2009		N	1064552.846250	2091412.215860
8286	Everett Road	Other	9/9/2009	cannot access	M	1102600.295630	2023804.318710
8285	Everett Road	Dry	9/9/2009		N	1101084.510410	2023693.339890
8287	Everett Road	Wet	9/9/2009		N	1101510.086090	2023806.646260
8288	Everett Road	Dry	9/9/2009		N	1101264.661200	2023785.191150
8289	Everett Road	Dry	9/9/2009		N	1101244.330190	2023692.123630
8290	Everett Road	Dry	9/9/2009		N	1102503.532490	2023692.205810
8748	Everett Road	Wet	9/9/2009		N	1101536.488400	2023671.023350
7725	Fairfield Road	Dry	8/13/2009	buried	M	1044284.373140	2071504.903970
7730	Fairfield Road	Other	8/13/2009	cannot access	M	1044241.382300	2058852.798230
7914	Fairfield Road	Other	8/13/2009	cannot find	M	1055650.915490	2026858.991090
8236	Fairfield Road	Other	8/13/2009	cannot find	M	1044523.286170	2055419.718160
7715	Fairfield Road	Dry	8/13/2009		N	1044068.983450	2073584.554530
7716	Fairfield Road	Wet	8/13/2009		N	1044070.317210	2073552.228130
7717	Fairfield Road	Wet	8/13/2009		N	1044130.282390	2072351.752480
7718	Fairfield Road	Dry	8/13/2009		N	1044424.810140	2069518.215450
7719	Fairfield Road	Dry	8/13/2009		N	1044433.350810	2069394.148890
7720	Fairfield Road	Dry	8/13/2009	75% obstructed with sediment	N	1044306.711450	2068459.907610
7721	Fairfield Road	Dry	8/13/2009		N	1044051.650710	2065005.017880
7722	Fairfield Road	Dry	8/13/2009	75% obstructed with sediment	N	1044158.491540	2067486.164510
7723	Fairfield Road	Wet	8/13/2009	thick vegetation	N	1044365.792150	2068456.196640
7724	Fairfield Road	Dry	8/13/2009		N	1044384.368790	2070664.136480
7726	Fairfield Road	Wet	8/13/2009		N	1044221.887900	2072207.568930
7727	Fairfield Road	Dry	8/13/2009	50% obstructed with sediment	N	1044183.358870	2072474.781730
7728	Fairfield Road	Wet	8/13/2009		N	1044155.870360	2073023.412510
7729	Fairfield Road	Wet	8/13/2009		N	1044150.972820	2073721.525540
7731	Fairfield Road	Dry	8/13/2009	thick vegetation	N	1044303.321240	2058839.716630
7732	Fairfield Road	Dry	8/13/2009	50% obstructed with sediment	N	1044301.592470	2059476.108310
7733	Fairfield Road	Dry	8/13/2009	thick vegetation	N	1044263.062680	2057424.038670
7734	Fairfield Road	Wet	8/13/2009	inlet not outlet	N	1044295.387800	2056947.244050
7735	Fairfield Road	Wet	8/13/2009		N	1044516.246170	2055440.368660
7736	Fairfield Road	Wet	8/13/2009	cannot access	N	1044820.139930	2054842.639370
7737	Fairfield Road	Dry	8/13/2009	thick vegetation	N	1045314.846110	2054292.015120
7738	Fairfield Road	Wet	8/13/2009		N	1045550.467480	2053703.551250
7739	Fairfield Road	Wet	8/13/2009		N	1045642.292630	2050848.712970
7740	Fairfield Road	Dry	8/13/2009		N	1045589.220250	2048232.700420
7741	Fairfield Road	Wet	8/13/2009		N	1045184.374680	2046122.486280
7742	Fairfield Road	Dry	8/13/2009	cannot access	N	1044457.202580	2045031.506950
7743	Fairfield Road	Dry	8/13/2009		N	1045639.959450	2047226.461700
7744	Fairfield Road	Wet	8/13/2009	thick vegetation	N	1045653.977750	2048562.482440
7745	Fairfield Road	Wet	8/13/2009	thick vegetation	N	1044474.852760	2044873.964290
7746	Fairfield Road	Dry	8/13/2009		N	1046534.526870	2039290.469890
7747	Fairfield Road	Dry	8/13/2009		N	1050368.187290	2033520.518650
7748	Fairfield Road	Dry	8/13/2009		N	1050977.082780	2032943.348990
7796	Fairfield Road	Wet	8/13/2009	severe erosion	N	1045362.521240	2094039.933750
7797	Fairfield Road	Wet	8/13/2009	thick vegetation	N	1045447.923610	2094633.719860
7798	Fairfield Road	Wet	8/13/2009		N	1045172.572060	2092501.362230
7799	Fairfield Road	Dry	8/13/2009	thick vegetation	N	1045073.842590	2091652.172590
7800	Fairfield Road	Dry	8/13/2009	thick vegetation	N	1045031.904670	2091379.139120
7801	Fairfield Road	Wet	8/13/2009		N	1045035.717530	2091054.008110
7802	Fairfield Road	Dry	8/13/2009	25% obstructed with sediment	N	1045250.013850	2092435.694640
7806	Fairfield Road	Dry	8/13/2009		N	1044456.819610	2088860.330290
7912	Fairfield Road	Dry	8/13/2009		N	1051028.108700	2032970.703610
7913	Fairfield Road	Wet	8/13/2009		N	1054765.402020	2027627.877110
7941	Fairfield Road	Wet	8/13/2009		N	1047524.439960	2037294.306050
7942	Fairfield Road	Dry	8/13/2009		N	1047397.379230	2037326.580480
7943	Fairfield Road	Dry	8/13/2009		N	1047420.610200	2037285.064450
7944	Fairfield Road	Dry	8/13/2009		N	1047481.196190	2037384.237820
7945	Fairfield Road	Wet	8/13/2009		N	1047474.232480	2037387.879930
7946	Fairfield Road	Wet	8/13/2009		N	1045384.581270	2050440.530190
7948	Fairfield Road	Wet	8/13/2009		N	1045539.951000	2050863.533580
8238	Fairfield Road	Dry	8/13/2009	pipe separated from fes	N	1056165.761960	2025153.897200
8239	Fairfield Road	Wet	8/13/2009		N	1056043.010210	2023193.348590
8240	Fairfield Road	Dry	8/13/2009		N	1056207.313830	2023520.788470

8241	Fairfield Road	Wet	8/13/2009		N	1056232.053160	2024569.403630
8543	Fremont Center Road	Wet	8/24/2009		N	1054864.688800	2046345.514760
8544	Fremont Center Road	Wet	8/24/2009		N	1054782.487460	2045027.255810
8545	Fremont Center Road	Dry	8/24/2009		N	1054856.358820	2044669.960450
8546	Fremont Center Road	Dry	8/24/2009		N	1054848.219810	2047170.095880
8547	Fremont Center Road	Dry	8/24/2009		N	1054845.819810	2048598.739720
8548	Fremont Center Road	Dry	8/24/2009		N	1054913.986720	2050914.910730
8549	Fremont Center Road	Dry	8/24/2009		N	1054845.713060	2050923.803150
8324	Gages Lake Road	Wet	9/4/2009		N	1076283.796920	2072117.415200
8325	Gages Lake Road	Dry	9/4/2009		N	1077402.635190	2071461.687840
8326	Gages Lake Road	Dry	9/4/2009	50% obstructed with sediment	N	1080460.376510	2071443.622940
8327	Gages Lake Road	Dry	9/4/2009	50% obstructed with sediment	N	1080463.016890	2071448.199450
8328	Gages Lake Road	Dry	9/4/2009		N	1078227.406780	2071515.051550
8329	Gages Lake Road	Dry	9/4/2009		N	1074471.295670	2072867.048990
8330	Gages Lake Road	Wet	9/4/2009		N	1082058.894270	2071443.761440
8331	Gages Lake Road	Dry	9/4/2009		N	1082429.998010	2071441.995810
8332	Gages Lake Road	Dry	9/4/2009		N	1083636.813760	2071434.906910
8333	Gages Lake Road	Dry	9/4/2009		N	1081063.483070	2071502.644000
8334	Gages Lake Road	Dry	9/4/2009		N	1085356.107200	2071433.178140
8335	Gages Lake Road	Dry	9/4/2009		N	1086201.732290	2071422.594330
8336	Gages Lake Road	Dry	9/4/2009		N	1087544.376260	2071390.875680
8337	Gages Lake Road	Dry	9/4/2009		N	1087565.211590	2071428.398110
8338	Gages Lake Road	Dry	9/4/2009		N	1088188.927680	2071426.815770
8339	Gages Lake Road	Wet	9/4/2009		N	1085806.553020	2071492.578330
8585	Gilmer Road	Other	9/14/2009	cannot find	M	1069835.682990	2021940.675570
7929	Gilmer Road	Wet	9/14/2009		N	1060193.624740	2030493.935100
7930	Gilmer Road	Wet	9/14/2009		N	1051548.484260	2042577.626370
7931	Gilmer Road	Dry	9/14/2009		N	1048315.565980	2047472.457480
7932	Gilmer Road	Dry	9/14/2009		N	1050018.636700	2045027.054340
7933	Gilmer Road	Dry	9/14/2009		N	1051017.897630	2043415.648000
7934	Gilmer Road	Wet	9/14/2009		N	1051075.503780	2043447.852800
7935	Gilmer Road	Dry	9/14/2009		N	1051296.550820	2042891.459080
7936	Gilmer Road	Wet	9/14/2009		N	1059836.731050	2031972.103160
7937	Gilmer Road	Dry	8/13/2009		N	1030536.646540	2060012.813590
7938	Gilmer Road	Dry	8/14/2009		N	1036264.904080	2053771.552780
7939	Gilmer Road	Dry	8/15/2009		N	1038469.918870	2053117.185550
7940	Gilmer Road	Dry	8/16/2009		N	1043424.990100	2051810.966030
7947	Gilmer Road	Wet	8/17/2009		N	1046499.587480	2048892.292110
7950	Gilmer Road	Dry	8/18/2009		N	1059113.875110	2033307.152890
7951	Gilmer Road	Dry	8/19/2009		N	1058910.106530	2033662.340860
7952	Gilmer Road	Dry	9/14/2009		N	1059037.196450	2033202.571000
8580	Gilmer Road	Dry	9/14/2009		N	1076362.102200	2018953.862380
8581	Gilmer Road	Wet	9/14/2009	buried	N	1076470.590650	2019010.764010
8582	Gilmer Road	Dry	9/14/2009	90% obstructed with sediment	N	1071757.154230	2020762.493170
8583	Gilmer Road	Wet	9/14/2009		N	1064389.427370	2026642.232310
8584	Gilmer Road	Dry	9/14/2009		N	1066466.289330	2024573.487860
7949	Glimer Road	Dry	9/14/2009		N	1035616.124050	2054064.581900
7859	Grass Lake Road	Other	8/10/2009	cannot find	M	1035369.180300	2099623.224120
7861	Grass Lake Road	Other	8/10/2009	cannot find	M	1036468.577430	2103864.969280
7835	Grass Lake Road	Dry	8/10/2009		N	1020954.531970	2099297.310010
7836	Grass Lake Road	Dry	8/10/2009	50% obstructed with sediment	N	1022138.664840	2099378.210870
7837	Grass Lake Road	Wet	8/10/2009		N	1023253.009800	2099278.698040
7838	Grass Lake Road	Dry	8/10/2009		N	1022285.612420	2099404.894780
7839	Grass Lake Road	Wet	8/10/2009	90% obstructed with sediment	N	1021512.608900	2099366.782010
7840	Grass Lake Road	Dry	8/10/2009		N	1021211.369350	2099397.227060
7841	Grass Lake Road	Dry	8/10/2009		N	1024638.691210	2099350.567740
7843	Grass Lake Road	Wet	8/10/2009		N	1025306.755210	2099165.092920
7844	Grass Lake Road	Wet	8/10/2009		N	1025271.187340	2099300.143420
7845	Grass Lake Road	Dry	8/10/2009	sand deposits	N	1025048.173700	2099329.463610
7846	Grass Lake Road	Wet	8/10/2009	90% obstructed with sediment	N	1026583.834250	2098233.137460
7847	Grass Lake Road	Dry	8/10/2009	50% obstructed with sediment	N	1026080.114570	2098667.936310
7848	Grass Lake Road	Dry	8/10/2009		N	1028820.011910	2097808.803380
7849	Grass Lake Road	Dry	8/10/2009	full of trash	N	1029244.994190	2097762.076730
7850	Grass Lake Road	Dry	8/10/2009		N	1029362.080650	2097766.950450
7851	Grass Lake Road	Dry	8/10/2009		N	1029459.655050	2097770.537270

7852	Grass Lake Road	Dry	8/10/2009		N	1029565.431690	2097777.025590
7853	Grass Lake Road	Dry	8/10/2009	50% obstructed with sediment	N	1030280.833420	2097827.417650
7854	Grass Lake Road	Dry	8/10/2009	cannot access	N	1030190.847120	2097816.064820
7855	Grass Lake Road	Dry	8/10/2009		N	1030097.921160	2097812.258360
7857	Grass Lake Road	Wet	8/10/2009	thick vegetation	N	1032141.232530	2099190.861880
7858	Grass Lake Road	Dry	8/10/2009	thick vegetation	N	1035003.922580	2099433.248310
7860	Grass Lake Road	Dry	8/10/2009		N	1036478.562190	2102236.473400
7863	Grass Lake Road	Wet	8/10/2009		N	1043422.105500	2105993.344570
7864	Grass Lake Road	Wet	8/10/2009		N	1044638.171290	2105941.105470
7865	Grass Lake Road	Wet	8/10/2009		N	1045042.824600	2105941.812030
7866	Grass Lake Road	Wet	8/10/2009		N	1045788.336790	2105958.597180
7867	Grass Lake Road	Wet	8/10/2009		N	1046510.725270	2105965.546810
7868	Grass Lake Road	Dry	8/10/2009		N	1047077.076120	2106025.337150
7869	Grass Lake Road	Dry	8/10/2009		N	1045387.756700	2106031.047740
7872	Grass Lake Road	Wet	8/10/2009		N	1047438.203290	2105965.122370
7911	Grass Lake Road	Dry	8/10/2009		N	1048085.458080	2105969.973570
8007	Grass Lake Road	Wet	8/10/2009		N	1048133.301660	2105960.690240
8008	Grass Lake Road	Dry	8/10/2009	buried	N	1049679.970970	2105530.449980
8009	Grass Lake Road	Dry	8/10/2009		N	1048035.026330	2106047.823930
8031	Grass Lake Road	Wet	8/10/2009	75% obstructed with sediment	N	1050252.098460	2105278.944320
8032	Grass Lake Road	Other	8/10/2009	under construction	N	1052841.843620	2104752.660800
8033	Grass Lake Road	Wet	8/10/2009		N	1050362.517660	2105310.462010
8034	Grass Lake Road	Wet	8/10/2009	thick vegetation	N	1049320.870810	2105641.744700
8050	Grass Lake Road	Dry	8/10/2009		N	1055518.574760	2103940.336190
8051	Grass Lake Road	Wet	8/10/2009		N	1056752.213410	2103786.910520
8052	Grass Lake Road	Dry	8/10/2009	50% obstructed with sediment	N	1059216.821930	2103688.188990
8053	Grass Lake Road	Dry	8/10/2009		N	1058664.462760	2103751.568440
8054	Grass Lake Road	Dry	8/10/2009		N	1064378.934700	2100358.028350
8055	Grass Lake Road	Dry	8/10/2009		N	1064989.081770	2099767.704630
8056	Grass Lake Road	Dry	8/10/2009		N	1064994.456240	2099768.790330
8057	Grass Lake Road	Dry	8/10/2009		N	1065646.807210	2099393.396020
8058	Grass Lake Road	Dry	8/10/2009		N	1065644.551340	2099401.469240
8059	Grass Lake Road	Wet	8/10/2009	thick vegetation	N	1066890.492330	2099615.313210
8060	Grass Lake Road	Wet	8/10/2009		N	1067848.562090	2099785.907000
8061	Grass Lake Road	Dry	8/10/2009		N	1069085.004720	2099281.347380
8062	Grass Lake Road	Wet	8/10/2009	buried	N	1066968.298160	2099704.569660
8063	Grass Lake Road	Dry	8/10/2009		N	1070762.672560	2098040.099890
8064	Grass Lake Road	Dry	8/10/2009		N	1071568.076210	2098080.457780
7856	Grass Lake Road	Other	8/10/2009	cannot find	O	1030317.815180	2097820.540980
8727	Greenleaf Street	Other	9/8/2009	under construction	M	1100879.903440	2074037.518880
8347	Greenleaf Street	Wet	9/8/2009		N	1100837.404620	2070118.929950
8348	Greenleaf Street	Wet	9/8/2009		N	1100834.426570	2070124.395290
8349	Greenleaf Street	Wet	9/8/2009		N	1100829.618890	2072760.325660
8350	Greenleaf Street	Dry	9/8/2009	inlet not outlet	N	1100745.921490	2072567.799070
8351	Greenleaf Street	Dry	9/8/2009	75% obstructed with sediment	N	1100722.157260	2072034.210850
7771	Hainesville Road	Wet	8/24/2009	buried	N	1057036.996520	2080689.549610
8296	Hainesville Road	Dry	8/24/2009		N	1055945.127840	2076078.764320
8365	Hainesville Road	Dry	8/24/2009		N	1056145.328040	2068770.539800
8366	Hainesville Road	Wet	8/24/2009		N	1056138.471330	2068890.795550
8367	Hainesville Road	Wet	8/24/2009		N	1056331.185830	2071599.921440
8368	Hainesville Road	Wet	8/24/2009		N	1056075.447970	2068946.448410
8369	Hainesville Road	Wet	8/24/2009		N	1056063.713440	2068788.390430
8370	Hainesville Road	Dry	8/24/2009		N	1056848.917920	2079718.410020
8504	Hart Road	Other	8/31/2009	cannot find	M	1033730.450320	1999877.871320
8501	Hart Road	Dry	8/31/2009		N	1032426.755470	2002617.492190
8502	Hart Road	Wet	8/31/2009		N	1032685.580690	2002412.526810
8503	Hart Road	Wet	8/31/2009		N	1033348.840080	2001930.173410
8505	Hart Road	Wet	8/31/2009		N	1032728.911500	2002471.209440
8523	Hawley Street	Other	8/24/2009	cannot find	M	1053934.358430	2039687.621630
8595	Hawley Street	Other	8/24/2009	does not exist	M	1063000.733350	2039865.574400
8522	Hawley Street	Dry	8/24/2009		N	1053926.787490	2039688.388350
8524	Hawley Street	Wet	8/24/2009		N	1055118.395810	2039702.293760
8525	Hawley Street	Wet	8/24/2009		N	1067094.393010	2041032.294150
8526	Hawley Street	Wet	8/24/2009		N	1066217.943470	2041095.059710
8591	Hawley Street	Wet	8/24/2009	thick vegetation	N	1065221.904300	2040672.129030

8592	Hawley Street	Dry	8/24/2009		N	1063655.638950	2039999.476990
8593	Hawley Street	Dry	8/24/2009	new outfall 50 ft northeast	N	1063245.594030	2039931.406850
8594	Hawley Street	Dry	8/24/2009	new outfall about 50 ft north	N	1063170.020270	2039919.604480
8596	Hawley Street	Dry	8/24/2009		N	1058011.701670	2039778.934270
8756	Hawley Street	Dry	8/24/2009	inlet not outlet	N	1056290.536610	2039811.017980
8120	Hunt Club Road	Dry	9/2/2009		N	1081771.457980	2112444.890180
8121	Hunt Club Road	Dry	9/2/2009		N	1081657.169850	2105923.948860
8122	Hunt Club Road	Wet	9/2/2009		N	1081725.647040	2103364.671550
8123	Hunt Club Road	Wet	9/2/2009		N	1081718.160830	2101108.111930
8143	Hunt Club Road	Wet	9/2/2009		N	1081629.237180	2096682.804790
8165	Hunt Club Road	Wet	9/2/2009		N	1084294.747330	2086757.044520
8166	Hunt Club Road	Wet	9/2/2009		N	1082151.635390	2094502.571060
8226	Hunt Club Road	Dry	9/2/2009		N	1084283.619520	2086566.032430
8305	Hunt Club Road	Wet	9/2/2009		N	1084273.546940	2085954.426920
8306	Hunt Club Road	Dry	9/2/2009		N	1084175.176130	2084763.460390
8307	Hunt Club Road	Wet	9/2/2009		N	1084118.875840	2081109.952810
8308	Hunt Club Road	Wet	9/2/2009		N	1084129.319610	2082082.929960
8309	Hunt Club Road	Wet	9/2/2009		N	1084130.813370	2081811.073320
8310	Hunt Club Road	Other	9/2/2009	this is a detention pond outlet not a lcdot outfall	N	1084131.845050	2081696.459300
8311	Hunt Club Road	Wet	9/2/2009		N	1084135.725250	2081671.940650
8313	Hunt Club Road	Wet	9/2/2009		N	1084243.598780	2076117.308190
8314	Hunt Club Road	Wet	9/2/2009		N	1084251.459520	2076713.242150
8315	Hunt Club Road	Dry	9/2/2009		N	1084257.982140	2078330.019110
8316	Hunt Club Road	Wet	9/2/2009	inlet not outlet	N	1084140.871610	2074589.748000
8317	Hunt Club Road	Wet	9/2/2009		N	1084224.716730	2073853.679140
8318	Hunt Club Road	Wet	9/2/2009		N	1084236.923330	2073954.796320
8319	Hunt Club Road	Wet	9/2/2009		N	1084107.277500	2070372.289050
8320	Hunt Club Road	Wet	9/2/2009		N	1084223.859650	2070171.668760
8321	Hunt Club Road	Wet	9/2/2009		N	1084221.169600	2070162.600480
8322	Hunt Club Road	Wet	9/2/2009		N	1084146.887870	2069970.588190
8323	Hunt Club Road	Dry	9/2/2009	buried	N	1084261.869500	2067180.755230
8506	Hunt Club Road	Dry	9/2/2009		N	1081728.196280	2115209.923140
8726	Hunt Club Road	Wet	9/2/2009		N	1084109.002170	2080494.649130
8745	Hunt Club Road	Dry	9/2/2009	likely outfall on both sides of bridge	N	1082544.979130	2094163.652400
8746	Hunt Club Road	Dry	9/2/2009		N	1082584.554170	2094223.452210
8761	Hunt Club Road	Wet	9/2/2009		N	1084065.747650	2070230.829090
8733	Hutchins Road	Dry	9/4/2009		N	1077739.824310	2087621.083440
8734	Hutchins Road	Wet	9/4/2009		N	1078083.489460	2085850.769450
8735	Hutchins Road	Dry	9/4/2009		N	1077994.183610	2085582.727210
8736	Hutchins Road	Dry	9/4/2009		N	1077948.977340	2085392.255790
8740	Hutchins Road	Dry	9/4/2009	buried	N	1078086.536630	2086868.475440
8747	Hutchins Road	Dry	9/4/2009		N	1077809.514940	2087602.200110
8586	Kelsey Road	Dry	8/31/2009		N	1023352.960650	2011027.482600
8587	Kelsey Road	Dry	8/31/2009	50% obstructed with sediment	N	1024267.187590	2016003.755500
8588	Kelsey Road	Dry	8/31/2009		N	1023609.113220	2012011.608810
8589	Kelsey Road	Dry	8/31/2009		N	1027601.351820	2019558.770410
8590	Kelsey Road	Dry	8/31/2009		N	1023282.839170	2010857.181930
8639	Kelsey Road	Dry	8/31/2009		N	1034320.460940	2025704.223990
8640	Kelsey Road	Wet	8/31/2009		N	1034863.565710	2025865.369590
7879	Kenosha Road	Other	8/18/2009	cannot find	M	1111165.360340	2121797.301840
7896	Kenosha Road	Other	8/18/2009	does not exist	M	1110317.901010	2112355.970630
7878	Kenosha Road	Dry	8/18/2009		N	1111171.396060	2122140.766800
7891	Kenosha Road	Dry	8/18/2009		N	1111213.501660	2121149.632840
7892	Kenosha Road	Dry	8/18/2009		N	1111133.346010	2120311.419470
7893	Kenosha Road	Wet	8/18/2009		N	1111152.050900	2119039.668300
7894	Kenosha Road	Wet	8/18/2009		N	1111124.869590	2117411.884360
7895	Kenosha Road	Dry	8/18/2009		N	1111005.926870	2115145.024580
7897	Kenosha Road	Dry	8/18/2009		N	1109847.716050	2110890.185540
7898	Kenosha Road	Wet	8/18/2009	submerged	N	1109463.476440	2109884.855110
7899	Kenosha Road	Dry	8/18/2009		N	1109210.310870	2108862.145090
7900	Kenosha Road	Dry	8/18/2009		N	1109124.956630	2108789.565500
8508	Kenosha Road	Dry	8/18/2009		N	1111162.463190	2119037.628750
8128	Kilbourne Road	Dry	8/18/2009	cannot find	M	1097511.314890	2106635.272510
8131	Kilbourne Road	Other	8/18/2009	does not exist	M	1097506.770120	2102110.256190
8124	Kilbourne Road	Dry	8/18/2009	25% obstructed with sediment	N	1097807.594700	2122543.948370

8125	Kilbourne Road	Dry	8/18/2009		N	1097772.255690	2122326.072910
8126	Kilbourne Road	Dry	8/18/2009	75% obstructed with sediment	N	1097680.040390	2112371.005000
8127	Kilbourne Road	Dry	8/18/2009		N	1097535.078090	2110694.275650
8129	Kilbourne Road	Wet	8/18/2009		N	1097497.488070	2104452.485690
8130	Kilbourne Road	Dry	8/18/2009		N	1097502.094030	2103136.515390
8169	Kilbourne Road	Dry	8/18/2009		N	1097568.201160	2100407.739710
8173	Kilbourne Road	Wet	8/18/2009	75% obstructed with sediment	N	1097693.209550	2121380.407880
8180	Kilbourne Road	Wet	8/18/2009		N	1097650.613450	2119106.086990
8181	Kilbourne Road	Dry	8/18/2009	thick vegetation	N	1097646.905030	2118787.027790
8182	Kilbourne Road	Dry	8/18/2009	thick vegetation	N	1097701.699530	2117976.332870
8184	Kilbourne Road	Dry	8/18/2009		N	1097674.937550	2116282.728780
8185	Kilbourne Road	Dry	8/18/2009	75% obstructed with sediment	N	1097601.085900	2115740.997960
8186	Kilbourne Road	Dry	8/18/2009	thick vegetation	N	1097580.033740	2114080.321610
8187	Kilbourne Road	Dry	8/18/2009		N	1097641.298380	2113912.122180
8188	Kilbourne Road	Wet	8/18/2009		N	1097569.407180	2113409.238600
8189	Kilbourne Road	Wet	8/18/2009	submerged	N	1097549.467080	2112280.441410
8097	Lake Avenue	Wet	9/2/2009		N	1033748.818060	2120015.406410
8098	Lake Avenue	Dry	9/2/2009	50% obstructed with sediment	N	1033683.398540	2119962.730320
8117	Lake Avenue	Dry	9/2/2009		N	1033668.926350	2116879.995720
8118	Lake Avenue	Dry	9/2/2009		N	1033668.196240	2116926.878280
8268	Lake Street	Wet	8/24/2009		N	1062566.643370	2073327.545630
8269	Lake Street	Wet	8/24/2009		N	1062468.750510	2076209.382950
8270	Lake Street	Dry	8/24/2009		N	1062459.544230	2075133.809950
7999	Lewis Avenue	Other	8/18/2009	cannot find	M	1113801.436120	2118471.401290
7873	Lewis Avenue	Wet	8/18/2009		N	1113464.011990	2099819.236660
7880	Lewis Avenue	Wet	8/18/2009		N	1113484.866010	2101322.691390
7881	Lewis Avenue	Dry	8/18/2009		N	1113366.429910	2097830.336310
7882	Lewis Avenue	Wet	8/18/2009		N	1113363.193560	2097865.485370
7883	Lewis Avenue	Dry	8/18/2009		N	1113440.816860	2096651.714870
7884	Lewis Avenue	Dry	8/18/2009		N	1113442.866650	2096651.774010
7885	Lewis Avenue	Dry	8/18/2009		N	1113442.462430	2096659.032370
7998	Lewis Avenue	Wet	8/18/2009		N	1113826.512090	2120389.231690
8000	Lewis Avenue	Dry	8/18/2009		N	1113496.039640	2117313.316420
8001	Lewis Avenue	Dry	8/18/2009		N	1113407.700950	2116668.180300
8002	Lewis Avenue	Wet	8/18/2009		N	1113487.712730	2116038.544200
8003	Lewis Avenue	Dry	8/18/2009	thick vegetation	N	1113414.619610	2115229.176130
8004	Lewis Avenue	Dry	8/18/2009		N	1113417.670360	2115043.972680
8005	Lewis Avenue	Dry	8/18/2009		N	1113413.551830	2114769.853770
8006	Lewis Avenue	Wet	8/18/2009		N	1113326.251740	2114254.154050
8010	Lewis Avenue	Dry	8/18/2009		N	1113408.149720	2112601.789000
8011	Lewis Avenue	Wet	8/18/2009		N	1113483.155670	2114358.230600
8012	Lewis Avenue	Dry	8/18/2009		N	1113489.487580	2115008.276810
8013	Lewis Avenue	Wet	8/18/2009		N	1113393.084890	2106550.148410
8014	Lewis Avenue	Wet	8/18/2009		N	1113392.319450	2106556.042560
8015	Lewis Avenue	Wet	8/18/2009		N	1113617.824470	2117299.735370
8016	Lewis Avenue	Wet	8/18/2009		N	1113616.020950	2117287.076680
8017	Lewis Avenue	Dry	8/18/2009		N	1113612.452310	2117276.868680
8018	Lewis Avenue	Wet	8/18/2009		N	1113382.712280	2112157.931590
8019	Lewis Avenue	Dry	8/18/2009		N	1113411.238360	2112013.725510
8020	Lewis Avenue	Dry	8/18/2009		N	1113492.982490	2112007.261760
8021	Lewis Avenue	Wet	8/18/2009		N	1113483.980510	2105355.016000
8022	Lewis Avenue	Wet	8/18/2009		N	1113470.284760	2104004.383290
8023	Lewis Avenue	Wet	8/18/2009		N	1113469.194970	2102243.979070
8024	Lewis Avenue	Wet	8/18/2009		N	1113478.810840	2101922.098490
8025	Lewis Avenue	Dry	8/18/2009		N	1113374.828510	2101233.662780
8139	Lewis Avenue	Wet	8/18/2009		N	1113352.456670	2095129.072690
8140	Lewis Avenue	Dry	8/18/2009	inlet not outlet	N	1113805.055960	2095085.149750
8176	Lewis Avenue	Dry	8/18/2009		N	1113298.654680	2064428.476180
8442	Long Grove Road	Other	8/31/2009	cannot find	M	1052259.586720	2001395.425240
8433	Long Grove Road	Dry	8/31/2009		N	1059371.711650	2002161.035230
8434	Long Grove Road	Other	8/31/2009	new storm sewer	N	1058912.379810	2002077.095900
8435	Long Grove Road	Wet	8/31/2009		N	1056968.372390	2001594.077150
8436	Long Grove Road	Wet	8/31/2009		N	1056178.400160	2001473.674720
8437	Long Grove Road	Dry	8/31/2009		N	1054662.504870	2001443.953630
8438	Long Grove Road	Dry	8/31/2009		N	1051694.039710	2001463.124190

8440	Long Grove Road	Other	8/31/2009	new storm sewer	N	1050720.648090	2001393.319130
8441	Long Grove Road	Wet	8/31/2009		N	1051077.633440	2001389.932250
8443	Long Grove Road	Wet	8/31/2009		N	1056968.948390	2001529.386210
8439	Long Grove Road	Wet	8/31/2009		O	1048650.923680	2001364.061920
8138	Martin Luther King Jr Drive	Wet	9/8/2009		N	1106379.609300	2059275.820560
8190	Martin Luther King Jr Drive	Wet	9/8/2009		N	1102960.800210	2059597.927700
8191	Martin Luther King Jr Drive	Wet	9/8/2009		N	1102818.225100	2059528.535830
8193	Martin Luther King Jr Drive	Dry	9/8/2009		N	1102789.196500	2059534.712080
8194	Martin Luther King Jr Drive	Wet	9/8/2009		N	1108326.353360	2059278.208530
8195	Martin Luther King Jr Drive	Dry	9/8/2009		N	1108084.753880	2059413.726230
8192	**Martin Luther King Jr Drive**	**Wet**	**9/8/2009**	**oily sheen**	**Y**	**1102777.390030**	**2059543.019030**
8539	Midlothian Road	Wet	8/24/2009		N	1069398.732980	2043703.163400
8540	Midlothian Road	Dry	8/24/2009		N	1069375.470000	2047619.610380
8541	Midlothian Road	Dry	8/24/2009		N	1069355.327410	2048189.988360
8728	Midlothian Road	Dry	8/24/2009		N	1069361.785260	2047615.166980
8302	Millburn Road	Wet	9/2/2009	thick vegetation	N	1073656.430770	2097692.625460
8303	Millburn Road	Wet	9/2/2009		N	1074980.530100	2097526.829880
8304	Millburn Road	Dry	9/2/2009		N	1075114.994100	2097497.074490
8744	Millburn Road	Dry	9/2/2009		N	1075056.435130	2097487.750710
8301	**Millburn Road**	**Wet**	**9/2/2009**	**oily sheen**	**Y**	**1073703.147700**	**2097636.002610**
8632	Miller Road	Other	8/31/2009	cannot find	M	1034629.517200	2019940.029680
8634	Miller Road	Other	8/31/2009	cannot find	M	1031125.433480	2020046.175730
8026	Miller Road	Wet	8/31/2009		N	1033608.623250	2020247.387630
8312	Miller Road	Wet	8/31/2009	50% obstructed with sediment	N	1035258.589840	2019983.840490
8633	Miller Road	Dry	8/31/2009		N	1032339.434890	2020116.792300
8635	Miller Road	Wet	8/31/2009		N	1038574.138000	2019911.946730
8636	Miller Road	Wet	8/31/2009		N	1042990.244250	2019986.043630
8637	Miller Road	Dry	8/31/2009		N	1037153.021840	2019931.223790
8638	Miller Road	Dry	8/31/2009	90% obstructed with sediment	N	1037203.928980	2019894.817010
7795	Monaville Road	Dry	8/7/2009	thick vegetation	N	1039626.330520	2088742.147370
7803	Monaville Road	Dry	8/7/2009		N	1040549.239450	2088735.705900
7804	Monaville Road	Dry	8/7/2009		N	1041659.215250	2088746.820650
7805	Monaville Road	Dry	8/7/2009		N	1041819.992470	2088759.119920
7808	Monaville Road	Dry	8/7/2009	75% obstructed with sediment	N	1047438.201240	2087781.946410
7809	Monaville Road	Dry	8/7/2009	25% obstructed with sediment	N	1050860.583330	2087679.898160
7810	Monaville Road	Dry	8/7/2009		N	1051950.739620	2087709.713710
7811	Monaville Road	Dry	8/7/2009		N	1051962.154400	2087705.182250
7812	Monaville Road	Dry	8/7/2009	25% obstructed with sediment	N	1054140.983970	2087429.230380
7813	Monaville Road	Wet	8/7/2009		N	1053598.391460	2087704.339500
7814	Monaville Road	Dry	8/7/2009		N	1050691.413920	2087761.139500
7815	Monaville Road	Dry	8/7/2009		N	1050360.846750	2087755.174960
8074	North Avenue	Wet	8/10/2009	buried	M	1049949.787550	2120541.101390
8075	North Avenue	Wet	8/10/2009	buried	M	1049955.718560	2120577.445200
8083	North Avenue	Wet	8/10/2009	cannot access	M	1056264.039590	2121289.044300
8073	North Avenue	Dry	8/10/2009		N	1049053.487010	2120601.963340
8076	North Avenue	Wet	8/10/2009	buried	N	1050102.464410	2120540.601160
8077	North Avenue	Dry	8/10/2009		N	1051336.902820	2120583.491920
8078	North Avenue	Dry	8/10/2009		N	1049027.807900	2120603.962440
8079	North Avenue	Wet	8/10/2009		N	1048813.420960	2120501.080910
8080	North Avenue	Wet	8/10/2009	fes rusted through	N	1057851.752610	2121602.822990
8085	**North Avenue**	**Wet**	**8/10/2009**	**lots of dead frogs**	**Y**	**1064891.253420**	**2123240.040780**
7927	Old McHenry Road	Wet	9/14/2009		N	1047422.466460	2027147.590390
7928	Old McHenry Road	Dry	9/14/2009		N	1046394.583960	2027909.029370
8566	Old McHenry Road	Dry	9/14/2009		N	1071237.260980	2012286.037990
8567	Old McHenry Road	Dry	9/14/2009	new construction	N	1070337.078960	2013434.465510
8568	Old McHenry Road	Dry	9/14/2009		N	1070664.827060	2012929.561060
8569	Old McHenry Road	Wet	9/14/2009		N	1071391.024820	2012154.090210
8570	Old McHenry Road	Dry	9/14/2009		N	1063344.426410	2020116.416240
8571	Old McHenry Road	Wet	9/14/2009		N	1056219.665320	2023075.030000
8572	Old McHenry Road	Wet	9/14/2009		N	1056198.601640	2023074.350320
8573	Old McHenry Road	Dry	9/14/2009		N	1057376.177060	2022516.572400
8574	Old McHenry Road	Wet	9/14/2009		N	1059427.350690	2022040.845550
8575	Old McHenry Road	Wet	9/14/2009		N	1054669.982370	2023490.413810
8576	Old McHenry Road	Dry	9/14/2009		N	1052766.408610	2023218.912750
8578	Old McHenry Road	Wet	9/14/2009		N	1050716.722590	2024382.948080

8579	Old McHenry Road	Wet	9/14/2009		N	1052919.589280	2023168.709110
8757	Old McHenry Road	Dry	9/14/2009		N	1056625.832100	2022583.622380
8577	**Old McHenry Road**	**Wet**	**9/14/2009**	**foamy water**	**Y**	**1050826.945950**	**2024388.804080**
8264	O'Plaine Road	Dry	9/8/2009	does not exist	M	1097539.615690	2064685.137430
8242	O'Plaine Road	Wet	9/8/2009	buried	N	1097500.805320	2077625.516580
8243	O'Plaine Road	Dry	9/8/2009	cmp rotted	N	1097500.423370	2077636.701480
8244	O'Plaine Road	Wet	9/8/2009		N	1097408.905930	2074109.777950
8245	O'Plaine Road	Wet	9/8/2009		N	1097429.961160	2073660.832290
8246	O'Plaine Road	Dry	9/8/2009		N	1097438.475980	2072931.651360
8247	O'Plaine Road	Dry	9/8/2009		N	1097433.767880	2072797.253150
8248	O'Plaine Road	Dry	9/8/2009		N	1097438.667210	2070087.975710
8249	O'Plaine Road	Dry	9/8/2009		N	1097396.151240	2069166.226460
8250	O'Plaine Road	Dry	9/8/2009	50% obstructed with sediment	N	1097415.123400	2069147.025440
8251	O'Plaine Road	Dry	9/8/2009		N	1097520.819910	2069059.034140
8252	O'Plaine Road	Dry	9/8/2009		N	1097424.677580	2068805.912350
8253	O'Plaine Road	Dry	9/8/2009		N	1097417.191630	2068804.558620
8254	O'Plaine Road	Dry	9/8/2009	50% obstructed with sediment	N	1097437.621710	2068400.900380
8255	O'Plaine Road	Dry	9/8/2009	50% obstructed with sediment	N	1097438.904780	2066813.198360
8256	O'Plaine Road	Dry	9/8/2009		N	1097428.326090	2066032.325660
8257	O'Plaine Road	Wet	9/8/2009	50% obstructed with sediment	N	1097443.015630	2063746.419740
8258	O'Plaine Road	Wet	9/8/2009	75% obstructed with sediment	N	1097439.231180	2062824.990230
8259	O'Plaine Road	Dry	9/8/2009		N	1097429.628360	2058365.119760
8260	O'Plaine Road	Dry	9/8/2009		N	1097425.750470	2058542.085910
8261	O'Plaine Road	Dry	9/8/2009		N	1097439.539660	2058011.809550
8262	O'Plaine Road	Wet	9/8/2009	50% obstructed with sediment	N	1097428.862920	2056170.325260
8263	O'Plaine Road	Wet	9/8/2009	50% obstructed with sediment	N	1097499.551180	2056169.560340
8265	O'Plaine Road	Dry	9/8/2009		N	1097506.960070	2068406.219800
8266	O'Plaine Road	Wet	9/8/2009		N	1097517.504710	2068881.818910
8267	O'Plaine Road	Dry	9/8/2009		N	1097570.390470	2066059.524120
8768	O'Plaine Road	Wet	9/8/2009		N	1097410.826190	2056887.271180
7920	Peterson Road	Other	8/14/2009	cannot find	M	1072251.613870	2054227.942930
7915	Peterson Road	Wet	8/14/2009		N	1072323.805360	2054245.575690
7916	Peterson Road	Dry	8/14/2009		N	1071038.916270	2054335.374610
7917	Peterson Road	Dry	8/14/2009	thick vegetation	N	1066234.671280	2054336.444690
7918	Peterson Road	Dry	8/14/2009		N	1067093.487280	2054325.762060
7919	Peterson Road	Dry	8/14/2009		N	1068782.131120	2054266.230030
7921	Peterson Road	Dry	8/14/2009		N	1073186.692530	2054197.211920
7922	Peterson Road	Dry	8/14/2009		N	1063053.430190	2054314.385680
7923	Peterson Road	Wet	8/14/2009		N	1060002.090150	2054300.972810
7924	Peterson Road	Dry	8/14/2009		N	1056982.990500	2054232.757010
7925	Peterson Road	Dry	8/14/2009		N	1055585.268390	2054225.049100
7926	Peterson Road	Dry	8/14/2009		N	1062252.985770	2054312.813580
8542	Peterson Road	Dry	8/14/2009		N	1054180.251810	2053525.092370
7871	Petite Lake Road	Other	8/10/2009	buried	M	1049512.610970	2099373.237050
7862	Petite Lake Road	Dry	8/10/2009		N	1044000.717980	2099368.847930
7870	Petite Lake Road	Wet	8/10/2009		N	1050690.930590	2099453.813560
8109	Prairie Road	Dry	9/15/2009		N	1086646.031300	2010060.397800
8110	Prairie Road	Dry	9/15/2009		N	1086720.669890	2013942.839270
8111	Prairie Road	Wet	9/15/2009		N	1086782.191300	2010217.298410
8295	Pulaski Drive	Other	9/8/2009	cannot find	M	1105370.264530	2064827.775770
8291	Pulaski Drive	Wet	9/8/2009	50% obstructed with sediment	N	1102870.570450	2066043.203610
8292	Pulaski Drive	Wet	9/8/2009		N	1104371.873740	2065073.250070
8293	Pulaski Drive	Wet	9/8/2009		N	1107899.578320	2064683.136020
8294	Pulaski Drive	Wet	9/8/2009		N	1109668.313560	2064768.911640
8404	Quentin Road	Dry	9/15/2009		N	1057551.409830	1999846.331870
8405	Quentin Road	Dry	9/15/2009		N	1057661.622950	1999003.763420
8406	Quentin Road	Wet	9/15/2009		N	1057676.511400	1999373.048540
8414	Quentin Road	Dry	9/15/2009		N	1057624.584100	2002108.141280
8415	Quentin Road	Wet	9/15/2009		N	1057622.244770	2002380.933090
8416	Quentin Road	Wet	9/15/2009		N	1057544.619170	2001510.431200
8417	Quentin Road	Dry	9/15/2009		N	1057627.881130	2003592.101090
8418	Quentin Road	Dry	9/15/2009		N	1057642.696100	2003596.458460
8419	Quentin Road	Dry	9/15/2009		N	1057625.167780	2003535.370210
8420	Quentin Road	Dry	9/15/2009		N	1057661.275560	2003819.738590
8421	Quentin Road	Dry	9/15/2009		N	1057754.350500	2004126.153440

8422	Quentin Road	Dry	9/15/2009		N	1057796.417700	2004244.425950
8423	Quentin Road	Dry	9/15/2009		N	1057956.496550	2004501.317090
8424	Quentin Road	Dry	9/15/2009		N	1058798.434210	2005962.678240
8425	Quentin Road	Dry	9/15/2009		N	1058979.621290	2007153.221600
8426	Quentin Road	Dry	9/15/2009		N	1058935.099560	2008706.415590
8427	Quentin Road	Dry	9/15/2009		N	1058931.340200	2009632.465380
8428	Quentin Road	Wet	9/15/2009		N	1058920.219810	2013919.207400
8429	Quentin Road	Dry	9/15/2009		N	1058886.907050	2022046.903020
8430	Quentin Road	Dry	9/15/2009		N	1058783.858090	2022213.083380
8431	Quentin Road	Dry	9/15/2009		N	1058804.129960	2021034.373870
8432	Quentin Road	Dry	9/15/2009		N	1058793.403560	2020521.876720
8449	Quentin Road	Dry	9/15/2009		N	1058967.533730	2009782.792420
8450	Quentin Road	Wet	9/15/2009		N	1058941.400740	2008858.296550
8451	Quentin Road	Wet	9/15/2009		N	1058917.705640	2006721.264100
8452	Quentin Road	Dry	9/15/2009		N	1058856.392610	2006460.872930
8453	Quentin Road	Wet	9/15/2009		N	1058693.822890	2005917.715680
8454	Quentin Road	Dry	9/15/2009		N	1058699.181990	2005904.687840
8455	Quentin Road	Wet	9/15/2009	50% obstructed with sediment	N	1058923.503010	2015349.535470
8456	Quentin Road	Other	9/15/2009	cannot find	N	1058788.109480	2019100.690160
8457	Quentin Road	Wet	9/15/2009	cannot access	N	1058805.051810	2019210.228460
8458	Quentin Road	Dry	9/15/2009	25% obstructed with sediment	N	1058803.886500	2019362.466290
8459	Quentin Road	Dry	9/15/2009		N	1058871.138730	2019865.664750
8460	Quentin Road	Dry	9/15/2009		N	1058871.600290	2020888.462830
8737	Quentin Road	Dry	9/15/2009		N	1058974.518440	2007392.080870
8413	**Quentin Road**	**Wet**	**9/15/2009**	**rust colored residue**	**Y**	**1057671.630760**	**2000756.242650**
8644	River Road	Dry	8/31/2009		N	1028684.573320	2028464.447220
8645	River Road	Dry	8/31/2009		N	1028667.590790	2027214.512120
8646	River Road	Dry	8/31/2009		N	1028751.167370	2027186.818040
8647	River Road	Wet	8/31/2009	90% obstructed with sediment	N	1028745.473670	2026619.100150
8749	Riverwoods Road	Other	9/9/2009	does not exist	M	1105706.887380	2004835.811300
8088	Riverwoods Road	Wet	9/9/2009		N	1100076.737230	2029610.600700
8089	Riverwoods Road	Wet	9/9/2009		N	1101019.687120	2026807.373560
8090	Riverwoods Road	Dry	9/9/2009		N	1099996.099280	2022524.496620
8091	Riverwoods Road	Dry	9/9/2009		N	1099998.341320	2022378.406380
8092	Riverwoods Road	Dry	9/9/2009		N	1099994.433230	2022153.013230
8093	Riverwoods Road	Dry	9/9/2009		N	1099994.846410	2022014.925300
8094	Riverwoods Road	Dry	9/9/2009		N	1099993.015760	2021875.914480
8095	Riverwoods Road	Dry	9/9/2009		N	1099993.614030	2021543.904240
8096	Riverwoods Road	Dry	9/9/2009		N	1099995.547080	2021439.906540
8101	Riverwoods Road	Dry	9/9/2009		N	1100049.819080	2017969.108200
8102	Riverwoods Road	Wet	9/9/2009		N	1100061.160400	2022210.770420
8103	Riverwoods Road	Wet	9/9/2009		N	1099929.026000	2011255.353830
8104	Riverwoods Road	Wet	9/9/2009		N	1099906.290380	2009513.886440
8105	Riverwoods Road	Wet	9/9/2009	75% obstructed with sediment	N	1099953.500110	2009063.105000
8106	Riverwoods Road	Wet	9/9/2009		N	1099972.613320	2009839.783910
8107	Riverwoods Road	Dry	9/9/2009		N	1099931.116490	2011451.843300
8108	Riverwoods Road	Wet	9/9/2009		N	1099928.802760	2011446.355430
8284	Riverwoods Road	Dry	9/9/2009	inlet not outlet	N	1100053.651660	2023656.590580
8750	Riverwoods Road	Dry	9/9/2009		N	1105803.700430	2004809.187550
8597	Roberts Road	Wet	8/31/2009		N	1028342.285710	2029563.300340
8598	Roberts Road	Dry	8/31/2009		N	1023815.382410	2030737.652980
8599	Roberts Road	Wet	8/31/2009		N	1023482.448260	2030852.830970
8600	Roberts Road	Dry	8/31/2009		N	1023465.737350	2030789.481460
8601	Roberts Road	Wet	8/31/2009		N	1022236.656770	2031756.060150
8602	Roberts Road	Wet	8/31/2009		N	1022243.392390	2031751.063550
8603	Roberts Road	Wet	8/31/2009		N	1021992.744580	2032136.804860
8604	Roberts Road	Dry	8/31/2009		N	1021208.562820	2034120.140030
8605	Roberts Road	Dry	8/31/2009		N	1021111.642500	2034373.288440
8606	Roberts Road	Dry	8/31/2009		N	1020892.697470	2034623.166970
8641	Roberts Road	Dry	8/31/2009	full of trash	N	1032582.820240	2028949.604340
8642	Roberts Road	Dry	8/31/2009	75% obstructed with sediment	N	1032408.216970	2029010.199030
8643	Roberts Road	Dry	8/31/2009		N	1028920.210310	2029529.430780
7765	Rollins Road	Other	8/6/2009	buried	M	1043623.114650	2082160.504620
7787	Rollins Road	Wet	8/6/2009	cannot find	M	1074540.243380	2082370.892840
7699	Rollins Road	Wet	8/6/2009	50% obstructed with sediment	N	1029793.250960	2083565.863210

7700	Rollins Road	Wet	8/6/2009	crimped pipe/half silted in	N	1032157.710730	2082831.528230
7701	Rollins Road	Dry	8/6/2009		N	1034786.244500	2081618.242860
7702	Rollins Road	Dry	8/6/2009		N	1034771.626380	2081695.962920
7703	Rollins Road	Dry	8/6/2009		N	1034760.750740	2081717.810470
7704	Rollins Road	Dry	8/6/2009		N	1034845.692820	2081755.409960
7705	Rollins Road	Dry	8/6/2009		N	1034369.332110	2081733.969700
7753	Rollins Road	Dry	8/6/2009		N	1036247.325840	2081652.808490
7754	Rollins Road	Dry	8/6/2009	25% obstructed with sediment	N	1037361.233810	2081570.330150
7755	Rollins Road	Dry	8/6/2009		N	1038287.582610	2081651.086890
7756	Rollins Road	Dry	8/6/2009		N	1038583.239570	2081931.475500
7757	Rollins Road	Dry	8/6/2009		N	1036043.576980	2081646.248490
7758	Rollins Road	Wet	8/6/2009		N	1035819.013780	2081646.148650
7759	Rollins Road	Dry	8/6/2009		N	1035566.633360	2081644.628260
7760	Rollins Road	Dry	8/6/2009		N	1034679.380110	2081768.877350
7761	Rollins Road	Dry	8/6/2009		N	1034698.152340	2081736.134950
7762	Rollins Road	Dry	8/6/2009		N	1034698.976910	2081646.012200
7763	Rollins Road	Dry	8/6/2009		N	1034718.033810	2081619.643180
7764	Rollins Road	Dry	8/6/2009		N	1033192.342410	2082443.369770
7766	Rollins Road	Dry	8/6/2009		N	1043192.705430	2082153.723180
7767	Rollins Road	Dry	8/6/2009		N	1040374.537620	2082183.077160
7768	Rollins Road	Wet	8/6/2009		N	1047962.711710	2080861.478690
7769	Rollins Road	Dry	8/6/2009		N	1050309.833370	2080830.596390
7770	Rollins Road	Wet	8/6/2009	buried	N	1057129.360040	2080951.524390
7772	Rollins Road	Dry	8/6/2009		N	1055661.874600	2080913.472550
7773	Rollins Road	Dry	8/6/2009		N	1059525.805480	2082108.701480
7774	Rollins Road	Wet	8/6/2009		N	1056049.209510	2080780.673830
7775	Rollins Road	Wet	8/6/2009	partially submerged	N	1057819.493030	2081270.597160
7776	Rollins Road	Dry	8/6/2009	25% obstructed with sediment	N	1065957.947310	2083096.382510
7777	Rollins Road	Dry	8/6/2009		N	1066864.717230	2083285.557290
7778	Rollins Road	Dry	8/6/2009		N	1067185.789870	2083261.605670
7779	Rollins Road	Dry	8/6/2009	25% obstructed with sediment	N	1067437.183150	2083221.859110
7780	Rollins Road	Dry	8/6/2009	50% obstructed with sediment	N	1068633.575860	2082643.433260
7781	Rollins Road	Dry	8/6/2009		N	1066068.677290	2083213.676330
7782	Rollins Road	Dry	8/6/2009		N	1064325.945770	2082801.001510
7783	Rollins Road	Dry	8/6/2009		N	1069089.943730	2082399.140650
7784	Rollins Road	Wet	8/6/2009		N	1068966.363310	2082577.879340
7785	Rollins Road	Dry	8/6/2009		N	1068461.404080	2082850.341670
7786	Rollins Road	Wet	8/6/2009		N	1075669.986230	2083340.088870
7788	Rollins Road	Wet	8/6/2009		N	1074132.758710	2082322.545700
7789	Rollins Road	Dry	8/6/2009		N	1072635.590070	2082110.880300
7790	Rollins Road	Wet	8/6/2009		N	1070467.549870	2081856.790060
7791	Rollins Road	Dry	8/6/2009		N	1072871.721650	2082148.997930
8133	Russell Road	Other	8/18/2009	cannot find	M	1094216.560330	2121288.407370
7874	Russell Road	Dry	8/18/2009		N	1114809.051610	2122659.960400
7875	Russell Road	Wet	8/18/2009		N	1116057.872090	2122692.483920
7876	Russell Road	Wet	8/18/2009		N	1115840.206810	2122697.701970
7877	Russell Road	Dry	8/18/2009	90% obstructed with sediment	N	1115786.062560	2122690.788690
7886	Russell Road	Dry	8/18/2009		N	1096350.718670	2121644.396360
7887	Russell Road	Dry	8/18/2009	50% obstructed with sediment	N	1101071.103950	2122871.532110
7888	Russell Road	Wet	8/18/2009		N	1107856.687060	2122753.899850
7889	Russell Road	Dry	8/18/2009	50% obstructed with sediment	N	1115217.537240	2122652.067920
8179	Russell Road	Dry	8/18/2009		N	1097701.863880	2122212.083790
8208	Sand Lake Road	Dry	9/4/2009		N	1073077.773490	2091456.824880
8210	Sand Lake Road	Wet	9/4/2009		N	1071936.311730	2091439.754800
8233	Sand Lake Road	Dry	9/4/2009		N	1071426.874030	2091366.679340
8234	Sand Lake Road	Wet	9/4/2009		N	1070478.547380	2091439.662900
8235	Sand Lake Road	Dry	9/4/2009		N	1070223.887790	2091362.498610
8271	St. Mary's Road	Wet	9/8/2009		N	1094672.236490	2048837.315080
8272	St. Mary's Road	Dry	9/8/2009		N	1094685.415370	2048897.280010
8273	St. Mary's Road	Dry	9/8/2009		N	1094714.680260	2048921.419530
8274	St. Mary's Road	Dry	9/8/2009	50% obstructed with sediment	N	1095155.405260	2051530.624010
8275	St. Mary's Road	Dry	9/8/2009		N	1094744.469190	2046993.130500
8276	St. Mary's Road	Wet	9/8/2009		N	1094743.688900	2046945.328900
8277	St. Mary's Road	Wet	9/8/2009		N	1094739.864780	2045170.512900
8278	St. Mary's Road	Wet	9/8/2009		N	1094803.956680	2048050.407430

8279	St. Mary's Road	Wet	9/8/2009		N	1094776.712140	2042844.033030
8280	St. Mary's Road	Dry	9/8/2009		N	1094772.013770	2042413.149960
8281	St. Mary's Road	Dry	9/8/2009	50% obstructed with sediment	N	1094823.541450	2040449.784580
8282	St. Mary's Road	Dry	9/8/2009		N	1094756.158410	2036342.870780
8283	St. Mary's Road	Dry	9/8/2009	90% obstructed with sediment	N	1094776.099270	2029256.115450
7792	State Park Road	Dry	8/10/2009	90% obstructed with sediment	N	1020580.975490	2096098.274610
7793	State Park Road	Dry	8/10/2009		N	1020578.535810	2095931.460400
7794	State Park Road	Wet	8/10/2009		N	1020653.033090	2095929.122870
7831	State Park Road	Wet	8/10/2009	90% obstructed with sediment	N	1020573.504640	2098188.692020
7832	State Park Road	Dry	8/10/2009	thick vegetation	N	1020567.197830	2097786.882870
7833	State Park Road	Wet	8/10/2009	50% obstructed with sediment	N	1020626.760070	2097931.649080
7834	State Park Road	Dry	8/10/2009		N	1020611.721350	2101625.478710
7842	State Park Road	Dry	8/10/2009		N	1020642.575490	2096655.440690
8142	Stearns School Road	Dry	9/4/2009		N	1079876.619450	2088051.983410
8162	Stearns School Road	Dry	9/4/2009		N	1082927.567800	2086827.214380
8163	Stearns School Road	Dry	9/4/2009		N	1082636.108990	2086926.838060
8164	Stearns School Road	Dry	9/4/2009		N	1082116.091320	2087147.275050
8207	Stearns School Road	Wet	9/4/2009		N	1093197.366980	2086060.536880
8209	Stearns School Road	Wet	9/4/2009		N	1073285.332150	2091471.337010
8225	Stearns School Road	Dry	9/4/2009		N	1086438.083260	2086448.827950
8227	Stearns School Road	Dry	9/4/2009		N	1089041.542850	2086059.073070
8228	Stearns School Road	Dry	9/4/2009		N	1089066.408390	2086053.676840
8229	Stearns School Road	Dry	9/4/2009		N	1089050.143430	2086058.499120
8230	Stearns School Road	Dry	9/4/2009		N	1089072.167870	2086050.569770
8231	Stearns School Road	Dry	9/4/2009		N	1090099.653320	2086060.963880
8232	Stearns School Road	Wet	9/4/2009		N	1089898.292930	2086101.298730
8741	Stearns School Road	Dry	9/4/2009		N	1077298.384570	2088803.413810
8742	Stearns School Road	Dry	9/4/2009		N	1078404.005300	2088158.583090
8743	Stearns School Road	Wet	9/4/2009		N	1078559.268280	2088277.504810
7977	Wadsworth Road	Dry	9/3/2009		N	1086621.978820	2099158.147900
7978	Wadsworth Road	Dry	9/3/2009		N	1087032.877760	2099148.495160
7979	Wadsworth Road	Dry	9/3/2009		N	1087062.736580	2099219.269940
7980	Wadsworth Road	Other	9/3/2009	cannot find	N	1086819.994300	2099237.509690
7981	Wadsworth Road	Dry	9/3/2009	50% obstructed with sediment	N	1090769.222080	2099124.439860
7982	Wadsworth Road	Dry	9/3/2009		N	1091635.430340	2099107.884090
7983	Wadsworth Road	Dry	9/3/2009		N	1091553.830600	2099175.788600
7984	Wadsworth Road	Other	9/3/2009	does not exist	N	1088374.216130	2099205.304380
7985	Wadsworth Road	Wet	9/3/2009		N	1095729.960900	2099084.443960
7986	Wadsworth Road	Wet	9/3/2009		N	1095732.801480	2099084.141880
7987	Wadsworth Road	Dry	9/3/2009		N	1097005.498310	2099140.150330
7989	Wadsworth Road	Dry	9/3/2009		N	1100548.845520	2099130.954810
7991	Wadsworth Road	Dry	9/3/2009		N	1107256.945110	2099019.113530
7992	Wadsworth Road	Wet	9/3/2009	50% obstructed with sediment	N	1110789.492440	2099072.506420
7993	Wadsworth Road	Wet	9/3/2009		N	1113964.202460	2099206.970940
7994	Wadsworth Road	Dry	9/3/2009		N	1116494.346720	2099863.215930
7995	Wadsworth Road	Dry	9/3/2009		N	1117311.476190	2099854.673210
7996	Wadsworth Road	Dry	9/3/2009		N	1117310.469340	2099804.351800
7997	Wadsworth Road	Wet	9/3/2009		N	1118752.690140	2099637.864250
8132	Wadsworth Road	Dry	9/3/2009		N	1100251.884490	2099054.839100
7988	**Wadsworth Road**	**Wet**	**9/3/2009**	**milky white water**	**Y**	**1097810.985670**	**2099077.499700**
7990	**Wadsworth Road**	**Wet**	**9/3/2009**	**rusty looking water**	**Y**	**1101533.129680**	**2099033.262650**
8659	Washington Street	Other	9/2/2009	under construction	M	1094348.654280	2074874.966820
8663	Washington Street	Wet	9/2/2009	cannot find	M	1093566.005190	2075198.299680
8674	Washington Street	Other	9/2/2009	does not exist	M	1105599.685330	2073900.270370
8689	Washington Street	Other	9/2/2009	under construction	M	1100902.818770	2074033.657890
8692	Washington Street	Other	9/2/2009	under construction	M	1100486.694860	2074030.565150
8693	Washington Street	Other	9/2/2009	under construction	M	1100366.916810	2074045.682210
8694	Washington Street	Other	9/2/2009	under construction	M	1097667.098060	2074130.549020
8695	Washington Street	Other	9/2/2009	thick vegetation	M	1096780.901320	2074126.942500
8697	Washington Street	Other	9/2/2009	cannot find	M	1096278.106830	2074137.732900
8698	Washington Street	Other	9/2/2009	under construction	M	1096142.775750	2074265.057060
8699	Washington Street	Other	9/2/2009	cannot access	M	1095768.662220	2074161.584670
8724	Washington Street	Other	9/2/2009	buried	M	1057170.071970	2072701.579550
8725	Washington Street	Other	9/2/2009	cannot find	M	1074951.539640	2074909 09.97968
8738	Washington Street	Other	9/2/2009	thick vegetation	M	1094036.050380	2074995.537440

8660	Washington Street	Wet	9/2/2009		N	1094022.095560	2074992.986910
8661	Washington Street	Wet	9/2/2009		N	1084928.951740	2075401.755170
8662	Washington Street	Wet	9/2/2009		N	1093462.841030	2075228.092450
8664	Washington Street	Wet	9/2/2009	buried	N	1086899.009730	2075470.520100
8665	Washington Street	Wet	9/2/2009		N	1082104.620480	2075539.437350
8666	Washington Street	Wet	9/2/2009		N	1082172.787900	2075368.079390
8667	Washington Street	Wet	9/2/2009	90% obstructed with sediment	N	1092465.632970	2075488.511780
8668	Washington Street	Dry	9/2/2009	75% obstructed with sediment	N	1092639.934150	2075483.434270
8669	Washington Street	Dry	9/2/2009	90% obstructed with sediment	N	1091712.101060	2075397.430310
8670	Washington Street	Dry	9/2/2009	50% obstructed with sediment	N	1091469.508550	2075401.739040
8671	Washington Street	Wet	9/2/2009		N	1082316.101310	2075350.771490
8672	Washington Street	Wet	9/2/2009		N	1082987.670970	2075400.562470
8673	Washington Street	Dry	9/2/2009		N	1105684.340690	2073897.898780
8675	Washington Street	Wet	9/2/2009		N	1105975.545300	2073995.402780
8676	Washington Street	Other	9/2/2009	new ss does not exist	N	1077121.966780	2075585.863200
8677	Washington Street	Wet	9/2/2009	75% obstructed with sediment	N	1076692.205490	2075417.344030
8678	Washington Street	Wet	9/2/2009	50% obstructed with sediment	N	1076912.016060	2075417.504290
8679	Washington Street	Wet	9/2/2009	75% obstructed with sediment	N	1077258.747580	2075413.992740
8680	Washington Street	Wet	9/2/2009		N	1077414.631100	2075410.586150
8681	Washington Street	Wet	9/2/2009	50% obstructed with sediment	N	1077524.912310	2075414.823710
8682	Washington Street	Wet	9/2/2009		N	1077547.854010	2075415.500580
8683	Washington Street	Wet	9/2/2009		N	1105463.654870	2073889.357090
8684	Washington Street	Wet	9/2/2009		N	1105363.199700	2074000.214050
8685	Washington Street	Dry	9/2/2009	25% obstructed with sediment	N	1077629.272500	2075413.355300
8686	Washington Street	Dry	9/2/2009	75% obstructed with sediment	N	1077732.084660	2075414.395170
8687	Washington Street	Wet	9/2/2009	75% obstructed with sediment	N	1077975.397050	2075416.745510
8690	Washington Street	Wet	9/2/2009	90% obstructed with sediment	N	1100908.459210	2073898.773280
8691	Washington Street	Wet	9/2/2009		N	1100901.016530	2073890.708510
8696	Washington Street	Wet	9/2/2009		N	1088226.516420	2075462.061350
8700	Washington Street	Wet	9/2/2009		N	1095317.514440	2074272.759580
8701	Washington Street	Wet	9/2/2009		N	1094890.035910	2074435.887390
8702	Washington Street	Wet	9/2/2009		N	1065207.827880	2073959.530270
8703	Washington Street	Wet	9/2/2009	50% obstructed with sediment	N	1076582.698420	2075498.598690
8704	Washington Street	Wet	9/2/2009		N	1076690.692530	2075506.125860
8705	Washington Street	Wet	9/2/2009	thick vegetation	N	1074707.023030	2074384.336670
8706	Washington Street	Wet	9/2/2009		N	1074760.519860	2074431.410460
8707	Washington Street	Wet	9/2/2009	thick vegetation	N	1074552.853170	2074288.705060
8708	Washington Street	Wet	9/2/2009		N	1075148.539570	2074757.946150
8709	Washington Street	Wet	9/2/2009		N	1070782.321330	2074256.410400
8710	Washington Street	Wet	9/2/2009		N	1070512.615090	2074252.981280
8711	Washington Street	Dry	9/2/2009		N	1070211.880620	2074180.108830
8712	Washington Street	Wet	9/2/2009		N	1067936.276650	2074178.550820
8713	Washington Street	Wet	9/2/2009		N	1066171.609260	2074111.282460
8714	Washington Street	Wet	9/2/2009		N	1065520.989870	2073902.150690
8715	Washington Street	Dry	9/2/2009		N	1068864.864430	2074073.771040
8716	Washington Street	Wet	9/2/2009		N	1090362.394050	2075392.187430
8717	Washington Street	Dry	9/2/2009		N	1054205.620640	2072832.666910
8718	Washington Street	Dry	9/2/2009		N	1054532.460450	2072780.269600
8719	Washington Street	Dry	9/2/2009		N	1052771.926430	2073251.881250
8720	Washington Street	Dry	9/2/2009		N	1050861.526940	2073809.483300
8721	Washington Street	Wet	9/2/2009		N	1050886.188700	2073797.688100
8722	Washington Street	Dry	9/2/2009		N	1060497.390250	2072879.171620
8723	Washington Street	Dry	9/2/2009		N	1059229.526690	2072788.966690
8732	Washington Street	Wet	9/2/2009		N	1106738.655700	2073897.204770
8760	Washington Street	Wet	9/2/2009		N	1082138.106560	2075323.225120
8688	**Washington Street**	**Wet**	**9/2/2009**	**oily sheen**	**Y**	**1105573.893590**	**2073900.928030**
8112	Weiland Road	Dry	9/15/2009		N	1088122.025670	2004119.453150
8113	Weiland Road	Wet	9/15/2009		N	1088198.870210	2004088.524510
8729	Weiland Road	Dry	9/15/2009		N	1088406.727360	2004528.505820
7691	Wilson Road	Other	8/7/2009	buried	M	1036493.143190	2074348.388640
7693	Wilson Road	Other	8/7/2009	cannot find	M	1036569.829520	2070838.601250
7687	Wilson Road	Dry	8/7/2009		N	1041039.095700	2063554.273300
7688	Wilson Road	Dry	8/7/2009		N	1041643.304090	2062878.879000
7689	Wilson Road	Dry	8/7/2009	thick vegetation	N	1041799.994260	2059403.616790
7690	Wilson Road	Dry	8/7/2009	50% obstructed with sediment	N	1041794.118040	2058249.251860

7692	Wilson Road	Dry	8/7/2009		N	1036499.646870	2073251.334180
7694	Wilson Road	Dry	8/7/2009		N	1036586.017680	2073590.583580
7695	Wilson Road	Dry	8/7/2009		N	1036561.555090	2070058.037790
7696	Wilson Road	Wet	8/7/2009	75% obstructed with sediment	N	1036311.264400	2068747.389470
7697	Wilson Road	Dry	8/7/2009		N	1036453.262230	2067689.536030
7698	Wilson Road	Dry	8/7/2009		N	1038011.397010	2065736.499990
7706	Wilson Road	Dry	8/7/2009		N	1036486.990740	2085242.318380
7707	Wilson Road	Wet	8/7/2009	25% obstructed with sediment	N	1036497.100430	2084011.587110
7708	Wilson Road	Dry	8/7/2009		N	1036484.171150	2081630.466860
7709	Wilson Road	Wet	8/7/2009		N	1036555.311510	2077483.221800
7710	Wilson Road	Dry	8/7/2009		N	1036623.844240	2079240.729890
7711	Wilson Road	Dry	8/7/2009		N	1036552.424590	2075997.578270
7712	Wilson Road	Dry	8/7/2009		N	1036554.940050	2076241.285410
7713	Wilson Road	Wet	8/7/2009	thick vegetation	N	1036567.448210	2081094.145060
7714	Wilson Road	Dry	8/7/2009	25% obstructed with sediment	N	1036561.642130	2081078.516520
7749	Wilson Road	Dry	8/7/2009	50% obstructed with sediment	N	1036491.094160	2080492.213540
7750	Wilson Road	Dry	8/7/2009		N	1036497.239950	2078052.791080
7751	Wilson Road	Dry	8/7/2009		N	1036762.102160	2081221.741350
7752	Wilson Road	Wet	8/7/2009		N	1036755.933070	2081232.360740
7686	**Wilson Road**	**Wet**	**8/7/2009**	**oily sheen in front of baxter**	**Y**	**1039379.074450**	**2064724.313880**
8537	Winchester Road	Other	9/9/2009	does not exist	M	1081651.866810	2050397.498380
7685	Winchester Road	Wet	8/3/2009		N	1085483.263940	2050236.909320
8237	Winchester Road	Dry	9/9/2009		N	1084152.421050	2050076.504840
8527	Winchester Road	Wet	9/9/2009		N	1065788.548780	2052089.964040
8528	Winchester Road	Wet	9/9/2009		N	1068453.481900	2051843.521800
8529	Winchester Road	Dry	9/9/2009		N	1068876.993460	2051874.484240
8530	Winchester Road	Dry	9/9/2009		N	1072757.846450	2051270.615050
8531	Winchester Road	Dry	9/9/2009		N	1073058.793140	2051218.666000
8532	Winchester Road	Wet	9/9/2009		N	1073229.623990	2051157.926160
8533	Winchester Road	Wet	9/9/2009		N	1073199.106230	2051343.495180
8534	Winchester Road	Wet	9/9/2009		N	1076132.573370	2050527.563270
8535	Winchester Road	Dry	9/9/2009		N	1076825.474740	2050408.620040
8536	Winchester Road	Dry	9/9/2009		N	1076930.921400	2050457.760520
8753	Winchester Road	Wet	9/9/2009		N	1084302.408890	2050978.189840
8765	Winchester Road	Dry	9/9/2009		N	1082669.200320	2050157.625870
8769	Winchester Road	Wet	9/9/2009	50% obstructed with sediment	N	1083993.423810	2050154.977550
8770	Winchester Road	Wet	9/9/2009		N	1085483.263940	2050236.909320
8771	Winchester Road	Dry	9/9/2009		N	1084589.879230	2050472.051980
8772	Winchester Road	Dry	9/9/2009		N	1084587.962050	2050469.973000
8773	Winchester Road	Dry	9/9/2009	poor condition	N	1084373.719230	2050640.880650
8774	Winchester Road	Dry	9/9/2009		N	1084312.961470	2050829.574920
8775	Winchester Road	Dry	9/9/2009	50% obstructed with sediment	N	1084028.894400	2050938.615050
8776	Winchester Road	Dry	9/9/2009		N	1083968.530880	2050926.299400
8777	Winchester Road	Wet	9/9/2009		N	1084541.660860	2051062.181900
8538	Winchester Road	Wet	9/9/2009		O	1081155.133370	2050407.354630
8141	Yorkhouse Road	Dry	9/4/2009		N	1107072.525270	2092371.241780
8148	Yorkhouse Road	Dry	9/4/2009		N	1107503.383250	2092363.690800
8149	Yorkhouse Road	Wet	9/4/2009		N	1108716.925400	2092418.951470
8150	Yorkhouse Road	Wet	9/4/2009		N	1108311.069400	2092417.212720
8151	Yorkhouse Road	Wet	9/4/2009		N	1107735.408600	2092428.316980
8152	Yorkhouse Road	Wet	9/4/2009		N	1109565.780440	2092408.969520
8153	Yorkhouse Road	Wet	9/4/2009		N	1111443.662810	2092322.234160
8154	Yorkhouse Road	Dry	9/4/2009		N	1111783.970520	2092321.378350
8196	Yorkhouse Road	Wet	9/4/2009	50% obstructed with sediment	N	1099722.146760	2093760.608820
8197	Yorkhouse Road	Dry	9/4/2009	thick vegetation	N	1095569.820620	2093846.728500
8198	Yorkhouse Road	Dry	9/4/2009		N	1101104.646860	2093728.284720
8199	Yorkhouse Road	Dry	9/4/2009		N	1103442.703310	2092749.710900
8200	Yorkhouse Road	Dry	9/4/2009	25% obstructed with sediment	N	1102813.302480	2093571.108400
8201	Yorkhouse Road	Wet	9/4/2009		N	1101731.049420	2093725.618990
8202	Yorkhouse Road	Dry	9/4/2009		N	1114055.008730	2092366.047280
8203	Yorkhouse Road	Dry	9/4/2009		N	1121404.067810	2092443.012150
8204	Yorkhouse Road	Dry	9/4/2009		N	1120836.620000	2092432.981550

Appendix B – Potential Illicit Discharge

Object ID	Illicit Discharge Testing Date/Time	Illicit Indicator	pH	Detergents	Chlorine	Ammonia	Phenols
8192	10/28/09 11am	none present					
8301	10/28/09 8am	none present					
8085	10/28/09 7:30am	none present	na	na	na	**na**	**na**
8577	10/14/09 9:30am	foamy water & high flow	7.75	0.25 - 0.50	0.00	**0.00**	**0.15**
8413	10/14/09 11:45am	rust colored residue (ferrous hydroxide??) & oily sheen	7.10	n/a	n/a	**n/a**	**inconclusive**
7988	10/28/09 10am	none present					
7990	10/28/09 10am	none present					
8688	10/28/09 9am	none present					
7686	10/28/09 2:30pm	none present					

SWALCO'S HOUSEHOLD CHEMICAL WASTE COLLECTION PROGRAM 2009

SWALCO's Household Chemical Waste (HCW) Collection Program is in its twelve year of operation. Our HCW program is a ***hybrid program*** consisting of ***mobile collection events*** (held at various locations throughout Lake County) and ***public drop-off events*** (held at our Gurnee facility). This hybrid program improves accessibility of the Program to residents and provides the opportunity to conduct HCW collections on a year round basis. SWALCO's hybrid HCW program is the first of its kind in the State of Illinois.

Eight (8) mobile events were conducted during the year. The mobile collection events where conducted throughout the County during the period April through November. Various municipal service centers, public works facilities, train stations, high schools etc. served as the site locations.

Twenty four (24) public drop-off events were conducted at our Office/HCW facility, located in Gurnee. These events were in addition to the eight mobile collection events. The Public Drop-off program continues to grow in popularity due to its convenience, speed of service and year round operation.

Program Overview

The intent of SWALCO's HCW program is to reduce the volume and toxicity of our municipal waste stream. This is accomplished by diverting HCW from the municipal waste stream and sending that waste stream to IEPA approved recycling and reuse facilities. Our HCW program is not only important from an environmental perspective it is also a great public safety program. Residents no longer have to stockpile their HCW, or pour them down the drain because "there is no other option".

Our HCW Program could not function without the support of our member communities and the Illinois Environmental Protection Agency (IEPA). SWALCO maintains key Intergovernmental Agreements with our members and the Illinois Environmental Protection Agency. Our Agreement with the Village of Gurnee allows us to operate the facility under certain operational parameters. Our IEPA agreement outlines general operational guidelines and provides funding for the "disposal" of the wastes while naming the IEPA as generator of the wastes.

SWALCO's Household Chemical Waste Engineer manages all aspects of the HCW Program. SWALCO's contractor, Clean Harbors Environmental Services (Clean Harbors), provided the environmentally trained/OSHA certified personal to perform the chemical handling/packaging and transportation services. The workforce varied in size from six to twenty people depending on the anticipated participation levels for each event. The larger scale mobile collection events required assistance from the municipal public works departments. The host municipality typically provided four to five public works employees to conduct participant surveys and onsite traffic management.

Operational supplies and safety equipment such as personnel protective gear, fire extinguishers, spill containment supplies, traffic cones, unloading carts etc. are provided by SWALCO. SWALCO is also responsible for providing tents, rolloff boxes, forklifts and temporary restrooms.

The HCW collected at the events is safely housed at our facility awaiting shipment to various reuse/recycling facilities. All HCW is removed from our facility within ninety days of receipt by the IEPA's disposal contractor, Veolia Environmental Services.

Advertisement of our Program is accomplished through various forms of media including newspapers, press releases, member service bulletins, municipal newsletters, an email list serve and SWALCO's website (www.swalco.org).

Operational Summary

SWALCO conducted a record number of HCW collection events this year, thirty two (32) events in total (8 mobile/24 public drop-offs). The ability to conduct year round collection events at the facility, which supplemented the mobile events, led to a record number to residents being served by the Program. Attendance levels at the mobile events have moderated while the participation levels at the public drop-off events increased 50%. Figure 1 depicts overall participation levels (at the mobile and public drop-off events) while Figure 2 focuses solely on participation levels and municipalities serviced by our public drop-off events.

Participant surveys show that approximately 40% of the participants attending the mobile events were "first timers" to our HCW Program while a surprising 60% of the participants at our

public drop-offs were "first timers'. These large percentages suggest that "the word" is getting out and continues to spread. Together, the attendance levels and the percentage of "first timers" indicate there is a continued strong demand for our HCW Program.

Collectively, the mobile and public drop-off events serviced approximately 6,757 households diverting an estimated 572,000 pounds of HCW from our municipal waste stream. This represents a slight increase (1-2%) in the number of households served and a slight decrease (10%) in the volume of HCW collected. Refer to Figure 3 (Household Chemical Waste Percentage Chart) for the types, volumes and percentages of wastes collected this program year.

Our HCW facility temporarily houses the wastes collected through the program. The waste is placed in individual storage bays according to hazard class. A Master Inventory List containing drum/container ID numbers, hazard class, bay locations, receiving date etc., is kept at the facility. Within ninety days the HCW is shipped to IEPA approved reuse/recycling facilities. Twelve (12) waste shipments from our facility occurred this program year.

The HCW Program budget for 2009 was $220,700 ($1,100 less than 2008 and $11,450 less than 2007). The budget covered operational supplies, collection event activities, rental equipment, facility maintenance costs, engineering services etc. Of the total budget, approximately $116,200 was paid to Clean Harbors for their services. Despite another budget decrease SWALCO was once again able to expand our HCW program.

As mentioned, the IEPA agreement provides funding to cover the costs of "disposing" of the HCW collected through our Program which is estimated to be $275,000 - $300,000 annually. During the summer of 2009 the IEPA informed staff that due to the State of Illinois' budget crisis the future of the IEPA funding is in jeopardy. The budget crisis forced the IEPA to cancel funding for their one day HCW collection events and to terminate their Partner for Paint Program. Despite the budget crisis, the IEPA sent SWALCO a letter stating they will honor the funding Agreement through the end of their fiscal year (June 30th). Funding is not guaranteed beyond that date. Major changes to our HCW will be necessary should the IEPA eliminate the funding or put a financial cap on the agreement.

Supplemental Programs

SWALCO continued to provide technical assistance to four supplemental programs that directly benefit our HCW Program. Those programs were the Ela Township Partner for Paint Program, the waste oil collection programs located in Lake Zurich and Lake Barrington and the new HCW satellite collection facility located in Lincolnshire.

The establishment and operation of these types of programs is important to SWALCO as they provide the public other outlets for the disposal of their HCW. Additionally, the paint and oil collection programs ship their wastes directly to the reuse/recycling facilities. This diverts these waste streams from our Program thereby reducing our operational costs.

The Partner for Paint Program was an IEPA recycling program for unwanted latex and oil based paints. Ela Township Highway Department (Lake Zurich area) served as the participating member for the past six years. An estimated 2,000 gallons of paint were collected in 2009 during the period April – September. **Due to IEPA funding cuts this program has been terminated.**

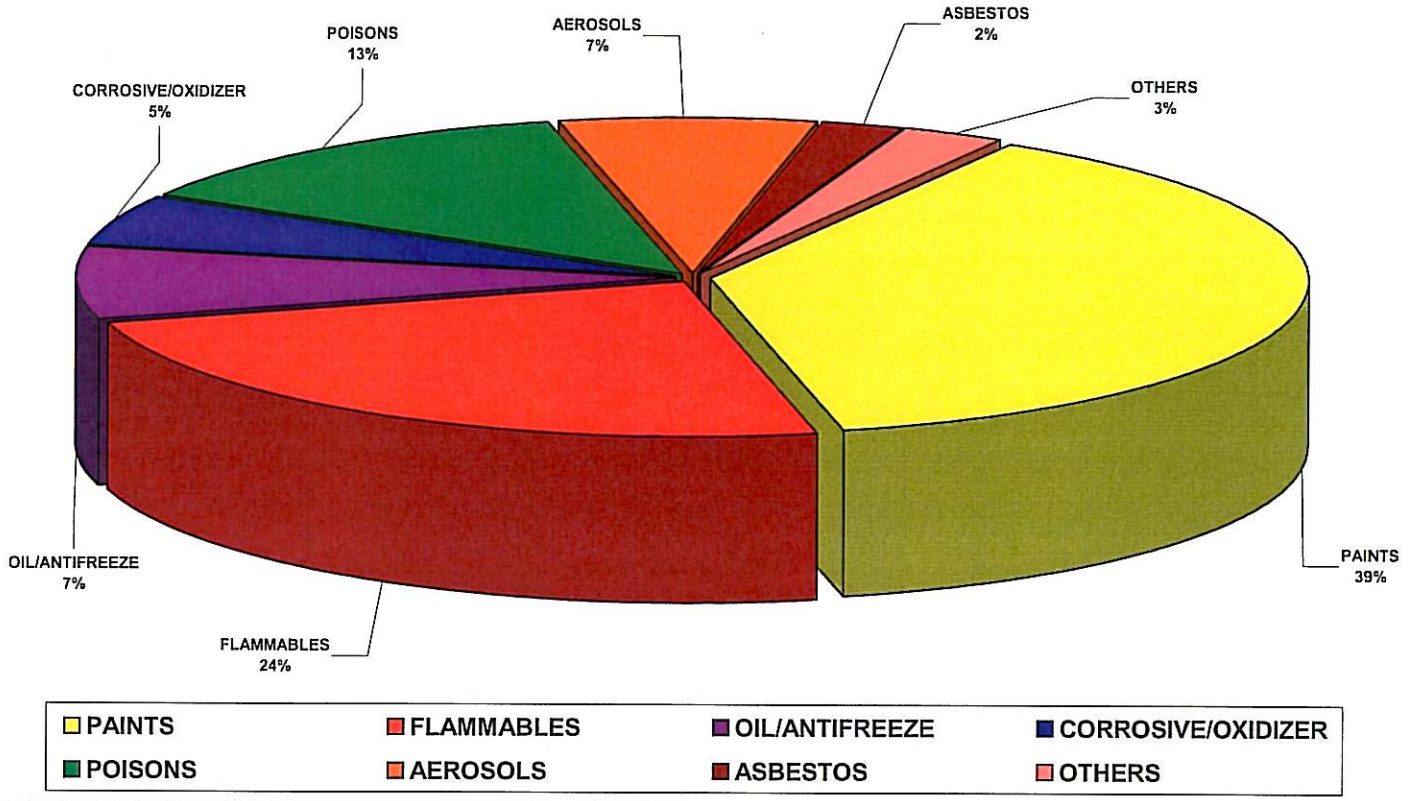
The Lake Zurich Oil Collection Program continues to be a valuable outlet for residents wanting to recycle their waste motor oil. This program is located the LZ Public Works Department and operates year round. Residents simply place their containers of used oil inside the yellow collection shed. LZ Public Works employees then transfer the oil from the containers into a bulk tank awaiting pickup by an oil recycling company. Six thousand one hundred and eighty six (6,186) gallons of motor oil were collected during 2009. Since its inception in 1998, this Program has collected approximately 68,900 gallons of motor oil.

The Village of Port Barrington also operates a residential motor oil collection program. The Program is located at their Public Works Department and is similar to the Lake Zurich program. However, appointments to drop off your oil are required. Since becoming operational in mid-2007 approximately 725 gallons of oil have been collected through this program.

New in 2009 was the establishment of the HCW Satellite Collection Program. The Lincolnshire Riverwoods Fire Protection District now collects HCW (on an appointment basis) at their Fire Station # 51 located in Lincolnshire. SWALCO obtained a development/operations permit from the IEPA and provided HCW specific training to the Fire District's HazMat fire fighters. The District's fire fighters can now safely collect HCW from the residents served by the Fire District (Lincolnshire, Riverwoods, Vernon Hills and Mettawa). HCW collected through this program is incorporated into our overall HCW Program. This program just became operational in late October/early November of 2009.

FIGURE 3

Household Chemical Waste Percentage Chart
Program Year 2009



Paints = Latex & Oil based
Pesticides/Poisons = Herbicides & Pesticides
Flammables = Gasoline, Thinners, Adhesives
Aerosols = Spray Paint Cans, etc.

Oils/Antifreeze = Motor Oils, Lubricants & Antifreeze
Asbestos = Asbestos floor tiles, pipe wrap, sheeting
Corrosive/Oxidizer = Drain Cleaners & Pool Chemicals
Others = Mercury Items, PCB's, NiCad Batteries, etc.

		Paints	Flammable Liquids	Oil/Antifreeze	Corrosives	Oxidizers	Poisons	Aerosols	Asbestos	Mercury/Bulbs	PCB's/Dioxins/Reactive	Flammable Solids	Ni-Cd/Alkaline Batteries	Drums Per Event
1	Fox Lake	29.7	10.0	8.0	6.2	0.2	6.8	4.7	1.7	0.9	0.7	7.5	0.9	**77.3**
2	Vernon Hills	89.0	14.0	10.0	7.0	1.3	23.2	9.4	0.1	3.4	0.0	7.6	0.3	**165.3**
3	Lake Zurich	63.1	27.0	10.0	6.0	1.3	23.2	9.4	0.1	2.6	0.1	22.4	0.9	**166.1**
4	Wauconda	63.0	15.0	14.0	5.4	1.4	15.4	6.7	0.6	2.4	0.4	11.8	0.4	**136.5**
5	Deerfield	59.4	15.0	7.0	6.3	0.3	21.1	9.4	0.6	4.7	0.2	11.3	0.5	**135.8**
6	Lake Forest	70.5	13.0	10.0	7.2	1.8	24.1	9.4	0.6	2.5	0.2	18.6	0.4	**158.3**
7	Round Lake Beach	29.7	9.0	8.0	4.0	0.1	6.7	4.7	3.7	2.1	0.0	11.2	0.4	**79.6**
8	Mundelein	74.2	33.0	22.0	5.1	0.7	27.9	20.5	3.7	7.1	0.0	29.9	1.1	**225.2**
24	Public Drop-off Events	130.7	52.8	30.2	26.7	3.9	60.5	36.4	23.3	11.6	2.5	81.7	4.6	**464.9**
	TOTALS	**609.3**	**188.8**	**119.2**	**73.9**	**11.0**	**208.9**	**110.6**	**34.4**	**37.3**	**4.1**	**202.0**	**9.5**	**1,609.0**

Note: volumes expressed as fifty-five gallon drum equivalents