

***APPENDIX I  
MS4 Matrix  
of  
Elements***

**WATERS of Jefferson County  
Year Zero**

**Watershed Approach To Environmentally  
Responsible Stewardship**

## Storm Water Management Program Tracking

## Illicit Discharge Program

ID	Who	Status	Start	Frequency	Update
<b>ID-1</b> <i>Implement an Aggressive Follow-up</i>	MSD	O	2000	As-needed	<ul style="list-style-type: none"> <li>MSD has initiated a program to follow-up on identified potential illicit connections and illegal dumping activities.</li> <li>The program is summarized in Appendix III.</li> </ul>
	Anchorage	N	"	"	<ul style="list-style-type: none"> <li>ID-1 is met through the interlocal agreement with MSD.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>ID-1 is met through the interlocal agreement with MSD.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>ID-1 is met through the interlocal agreement with MSD.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>ID-1 is met through the interlocal agreement with MSD.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>ID-1 is met through the interlocal agreement with MSD.</li> </ul>
<b>ID-2</b> <i>Storm Water Outfall Location, Structure Inventory and Screening Program</i>	MSD	O	2000	Annual	<ul style="list-style-type: none"> <li>The Storm Water Outfall and Structure Inventory Program took place in Cedar Creek and Floyds Fork Watersheds.</li> <li>Students from Valley H.S., Jeffersontown H.S., and St. Matthews H.S. participated in the program.</li> <li>A total of 666 outfalls were located - 618 dry outfalls, 29 wet outfalls, and 19 contaminated (detergents, chlorine, and copper) outfalls.</li> <li>ICAM was notified to determine the source of the contaminated outfalls.</li> <li>A pilot study is ongoing to examine data during anticipated high use times.</li> </ul>
	Anchorage	N	"	"	<ul style="list-style-type: none"> <li>ID-2 is met through the interlocal agreement with MSD.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>ID-2 is met through the interlocal agreement with MSD.</li> <li>Students from Jeffersontown H.S. participated in the program.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>ID-2 is met through the interlocal agreement with MSD.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>ID-2 is met through the interlocal agreement with MSD.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>ID-2 is met through the interlocal agreement with MSD.</li> <li>Students from St. Matthews H.S. participated in the program.</li> </ul>
<b>ID-3</b> <i>Database/ Case Tracking System</i>	MSD	N	2000	As-needed	<ul style="list-style-type: none"> <li>The ICAM Incident Response Database to track illicit connections and known spills. Incorporation of the incidents of a MS4 nature is accomplished through a stream impact field in the database.</li> <li>Last year there were 31 incidents recorded ranging from spills related to motor vehicle accidents to releases of chlorinated water.</li> <li>A notice of violation is issued for all incidents where a responsible party is identified. Enforcement is tracked via milestones in the database.</li> <li>MSD Student Outfall initiative is being tracked by a spreadsheet for new sites discovered in the summer of 1999. For older sites, data is being collected and tracked on a watershed basis.</li> </ul>
	Anchorage	"	"	"	<ul style="list-style-type: none"> <li>ID-3 is met through the interlocal agreement with MSD.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>ID-3 is met through the interlocal agreement with MSD.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>ID-3 is met through the interlocal agreement with MSD.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>ID-3 is met through the interlocal agreement with MSD.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>ID-3 is met through the interlocal agreement with MSD.</li> </ul>

O = Ongoing Programs  
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### Storm Water Management Program Tracking

### Illicit Discharge Program (Continued)

ID	Who	Status	Start	Frequency	Update
<b>ID-4</b> <i>Illicit Discharge/ Illegal Dumping Ordinance</i>	Prospect	N	2000	Once	<ul style="list-style-type: none"> <li>MSD assumed ownership of the Prospect sewer system on 8/1/99. ID-4 now under MSD WDRs.</li> </ul>
<b>ID-5</b> <i>Education</i>	MSD	O	2000	Annually	<ul style="list-style-type: none"> <li>MSD plans to hold a WDR seminar for industry in the early 2000. Storm Regulations will be discussed in the seminar.</li> <li>A compliance agreement has been negotiated with the Louisville Water Company to address chlorinated water releases to surface streams.</li> <li>Grease blockages in the sanitary system from poorly maintained restaurant grease traps will be addressed in a multi-faceted education initiative. MSD has produced a video to distribute to restaurants.</li> </ul>
	Anchorage	"	"	"	<ul style="list-style-type: none"> <li>City posts signs, which prohibit dumping into streams.</li> <li>Police and city staff provide surveillance.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>City posts signs, which prohibit dumping into streams.</li> <li>Students participated in the Outfall Program.</li> <li>Bi-monthly city newsletter about illicit connections.</li> <li>Public works inspectors monitors for dumping.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>Monthly newsletter can contain information on illicit connections and illegal dumping.</li> <li>Prospect posts and maintains signs notifying public that dumping into streams is prohibited.</li> <li>Illicit discharge and improper disposal prohibited by ordinance.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>City posts signs, which prohibit dumping into streams.</li> <li>Police frequently inspects problem areas.</li> <li>A special cleanup crew cleans problem dumping areas once or twice a month.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>City posts signs, which prohibit dumping into streams.</li> <li>Students participated in the Outfall program.</li> </ul>
	KTC	"	"	"	<ul style="list-style-type: none"> <li>KTC has not signed interlocal agreement.</li> </ul>

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## Storm Water Management Program Tracking

## Construction Site Runoff Controls

ID	Who	Status	Start	Frequency	Update
<b>CS-1</b> <i>Erosion Prevention and Sediment Control (EPSC) Plan</i>	MSD	O	2000	Continual	<ul style="list-style-type: none"> <li>MSD's Pollution Prevention team currently reviews EPSC plans for new development.</li> </ul>
	Anchorage	"	"	"	<ul style="list-style-type: none"> <li>EPSC Ordinance is currently being prepared by Jefferson County.</li> <li>City has an EPSC Ordinance in place (Chapter 52 of City Code Book).</li> <li>Anchorage engineer performs inspections for erosion and sediment control on site.</li> <li>City requires separate cash bond and drainage fees.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>EPSC Ordinance is currently being prepared by Jefferson County.</li> <li>City has windshield inspections.</li> <li>City requires separate cash bond and drainage fees.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>EPSC Ordinance is currently being prepared by Jefferson County.</li> <li>All sites inspected by City Engineer prior to release of bond.</li> <li>Bonds required for all construction to cover costs of finish grading drainage, and clean up.</li> <li>Police officers monitor construction sites and report violations to City Administrator who reviews the report and is authorized to take action as appropriate, including stop work orders.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>EPSC Ordinance is currently being prepared by Jefferson County.</li> <li>Shively has a code enforcement officer.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>EPSC Ordinance is currently being prepared by Jefferson County.</li> <li>St. Matthews inspects on an as-needed basis.</li> </ul>
	KTC	"	"	"	<ul style="list-style-type: none"> <li>KTC has not signed interlocal agreement.</li> </ul>
<b>CS-2</b> <i>Training for Designers/Planners/Developers</i>	MSD	O	2000	Annual	<ul style="list-style-type: none"> <li>MSD has a draft EPSC Plan. Implementation of the EPSC plan will involve training for Designers, Planners, and Developers.</li> </ul>
<b>CS-3</b> <i>Training for Operators</i>	MSD	N	2000	Annual	<ul style="list-style-type: none"> <li>MSD has a draft EPSC Plan. Implementation of the EPSC plan will involve training for Operators.</li> </ul>
<b>CS-4</b> <i>Guidance Material</i>	MSD	N	2000	Once	<ul style="list-style-type: none"> <li>Technical memos will be provided to designers, planners, developers, MSD and co-permittee staff on new EPSC plan requirements.</li> </ul>

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### Storm Water Management Program Tracking

### Construction Site Runoff Controls (Continued)

ID	Who	Status	Start	Frequency	Update
CS-5 Scheduled Inspections of BMPs.	MSD	O	2000	Continual	<ul style="list-style-type: none"> <li>In September 1998, monthly inspections (or more frequent) for EPSC plan compliance began on private developments.</li> <li>Inspectors were coached on proper documentation protocol.</li> </ul>
	Anchorage	"	"	"	<ul style="list-style-type: none"> <li>No major subdivisions under construction.</li> <li>City requires separate cash bond and drainage fees.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>City requires separate cash bond and drainage fees.</li> <li>City has windshield inspections.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>All sites inspected by City Engineer prior to release of bond.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>No formal program.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>No formal program. St. Matthews inspects on an as-needed basis.</li> </ul>
	KTC	"	"	"	<ul style="list-style-type: none"> <li>KTC has not signed interlocal agreement.</li> </ul>
	Jefferson County Louisville	"	"	"	<ul style="list-style-type: none"> <li>No formal program. Jefferson County inspects on an as-needed basis.</li> <li>No formal program. Louisville inspects on an as-needed basis.</li> </ul>
CS-6 BMP Maintenance Schedule	Owner/ Operator	O	2000	Continual	<ul style="list-style-type: none"> <li>NA</li> </ul>

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## Storm Water Management Program Tracking

## Post Construction Controls

ID	Who	Status	Start	Frequency	Update
PC-1 Watershed Planning	MSD	N	2001	Annual	<ul style="list-style-type: none"> <li>Have upgraded monitoring network to collect data more frequently.</li> <li>A scope for an environmental inventory of Pond Creek is being developed. The Pond Creek Watershed Project will use the greenway concepts to improve water quality on a watershed basis.</li> <li>Data collection efforts have been increased in Chenoweth Run.</li> </ul>
PC-2 Pilot BMP Projects	MSD	N	2001	Annual	<ul style="list-style-type: none"> <li>A presentation was given to MSD staff regarding opportunities for BMPs on all MSD capital programs.</li> <li>Greenways projects over the past year include Ohio River Trail, Upper River Road Multi-Use Trail, Whipps Mill Basin Greenway, and the Pond Creek Trail.</li> <li>Friends of Beargrass Creek and MSD are patterning on 1- 2 parking lot BMPs.</li> </ul>
	Anchorage	"	"	"	<ul style="list-style-type: none"> <li>Pilot BMP Projects will be initiated over the next five years.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>Pilot BMP Projects will be initiated over the next five years.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>Pilot BMP Projects will be initiated over the next five years.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>Pilot BMP Projects will be initiated over the next five years.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>Pilot BMP Projects will be initiated over the next five years.</li> </ul>
	KTC	"	"	"	<ul style="list-style-type: none"> <li>KTC has not signed interlocal agreement.</li> </ul>
PC-3 Built-Upon Area Reductions	Anchorage	O	2003	Continual	<ul style="list-style-type: none"> <li>Tree preservation ordinance manages construction and trenching and requires one replacement tree for every tree removed.</li> <li>Anchorage's floor area ratios require more land (open space) than Jefferson County's floor area ratios.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>Follow Louisville and Jefferson County Zoning Regulations.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>Follow Louisville and Jefferson County Zoning Regulations.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>Follow Louisville and Jefferson County Zoning Regulations.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>Follow Louisville and Jefferson County Zoning Regulations.</li> </ul>
	Jefferson County	"	"	"	<ul style="list-style-type: none"> <li>Follow Louisville and Jefferson County Zoning Regulations.</li> </ul>
	Louisville	"	"	"	<ul style="list-style-type: none"> <li>Follow Louisville and Jefferson County Zoning Regulations.</li> <li>Increased green space at Park Duvall</li> </ul>
PC-4 Source Controls	MSD	N	2002	Continual	<ul style="list-style-type: none"> <li>IWD reviews all industrial and commercial plans and requires secondary containment and a Spill Control Plan for hazardous materials that will remain on-site for new facilities.</li> <li>IWD "polices" floor drains.</li> </ul>
	Anchorage	"	"	"	<ul style="list-style-type: none"> <li>No post construction checklist.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>No post construction checklist.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>No post construction checklist.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>No post construction checklist.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>No post construction checklist.</li> </ul>
	KTC	"	"	"	<ul style="list-style-type: none"> <li>KTC has not signed interlocal agreement.</li> </ul>
	Jefferson County	"	"	"	<ul style="list-style-type: none"> <li>No post construction checklist.</li> </ul>
	Louisville	"	"	"	<ul style="list-style-type: none"> <li>No post construction checklist.</li> </ul>

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## Storm Water Management Program Tracking

## Good Housekeeping / Pollution Prevention

ID	Who	Status	Start	Frequency	Update
<b>GH-1 Street Maintenance</b>	Jefferson County	O	2000	Continual	<ul style="list-style-type: none"> <li>Maintenance is performed on an as-needed basis.</li> </ul>
	Anchorage	"	"	"	<ul style="list-style-type: none"> <li>Public works uses a truck with a vacuum to remove litter from roadside ditches on an as-needed basis.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>Maintenance is performed on an as-needed basis.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>Maintenance is performed on an as-needed basis. Full-time handy-man on staff.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>Maintenance is performed on an as-needed basis.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>Maintenance is performed on an as-needed basis. Debris is removed by hand.</li> </ul>
	KTC	"	"	"	<ul style="list-style-type: none"> <li>KTC has not signed interlocal agreement.</li> </ul>
<b>GH-2 Street Sweeping</b>	Jefferson County	O	2000	Continual	<ul style="list-style-type: none"> <li>County uses vacuum aided street sweeping machine on as-needed basis.</li> </ul>
	Anchorage	"	"	"	<ul style="list-style-type: none"> <li>City has its own leaf vacuum for clearing streets.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>City uses vacuum aided street sweeping machine once a month.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>City sweeps streets as needed.</li> <li>Clean up of streets near construction required by ordinance and enforced through bonding requirements.</li> <li>Streets cleaned frequently during high salt use periods.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>City manually sweeps streets on as-needed basis.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>City is ordering a new vacuum aided street sweeping machine. Sweeps streets as necessary.</li> </ul>
	KTC	"	"	"	<ul style="list-style-type: none"> <li>KTC has not signed interlocal agreement.</li> </ul>
<b>GH-3 Catch Basin Cleaning</b>	MSD	O	2000	Continual	<ul style="list-style-type: none"> <li>Maintenance services are performed as regular routine practices on catch basins throughout Jefferson County.</li> <li>Debris from cleaning is collected, dewatered, and landfilled.</li> </ul>
	Anchorage	"	2001	"	<ul style="list-style-type: none"> <li>Catch basins are checked after rain events and cleaned by hand.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>Problem areas checked as needed. Sweeper cleans grates if a problem is noticed.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>Catch basins are manually cleaned on as-needed basis. Full-time handyman on staff.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>Catch basins are manually cleaned on as-needed basis.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>80% of the catch basins have been cleaned manually this year.</li> <li>New catch basin grates with smaller slots are replacing older catch basin grates. The new grates prevent debris from entering the storm sewer.</li> </ul>
	KTC	"	"	"	<ul style="list-style-type: none"> <li>KTC has not signed interlocal agreement.</li> </ul>

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## Storm Water Management Program Tracking

## Good Housekeeping / Pollution Prevention (Continued)

ID	Who	Status	Start	Frequency	Update
<b>GH-4 Storm Sewer Cleaning</b>	MSD	O	2000	Continual	<ul style="list-style-type: none"> <li>Maintenance services are performed as regular routine practices on storm sewers.</li> <li>The Maintenance Department handles an average of more than 300 work orders each month for approximately 45 neighborhood divisions throughout Jefferson County.</li> <li>Debris from cleaning is collected, dewatered, and landfilled.</li> </ul>
	Anchorage	N	2001	"	<ul style="list-style-type: none"> <li>Storm sewers are flushed as needed.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>Use a sewer cleaning machine on an as needed basis.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>Storm water collection and conveyance facilities are inspected biannually and repaired as necessary.</li> <li>Storm sewer drains cleaned out annually in Fall, more often if needed.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>Storm sewers are manually cleaned as needed.</li> <li>City has a pressure auger, used for clearing drainage pipes under residents driveways.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>Storm sewers are manually cleaned as needed.</li> </ul>
	KTC	"	"	"	<ul style="list-style-type: none"> <li>KTC has not signed interlocal agreement.</li> </ul>
<b>GH-5 Channel Maintenance</b>	MSD	O	2000	Continual	<ul style="list-style-type: none"> <li>Maintenance services are performed as regular routine practices on channels.</li> <li>The Maintenance Department handles an average of more than 300 work orders each month for approximately 45 neighborhood divisions throughout Jefferson County.</li> </ul>
	Anchorage	"	2001	"	<ul style="list-style-type: none"> <li>Mowing completed by City and Anchorage Trails Club.</li> <li>Concrete ditches are cleaned manually.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>Grass channels taken care of on an as needed basis.</li> <li>Rip rap used where erosion is evident. Gabion walls used on ditches.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>Maintenance is performed on an as-needed basis.</li> <li>Drainage complaints investigated by City Engineer.</li> <li>City utilizes natural solutions wherever possible.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>Director of Public Works visually checks drainage system before and after significant rainfall events.</li> <li>Public Works mows along creeks and drainage areas 6 to 7 times per year.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>Public Works mows as needed.</li> <li>City uses its own backhoe for periodic silt removal in creeks.</li> </ul>
	KTC	"	"	"	<ul style="list-style-type: none"> <li>KTC has not signed interlocal agreement.</li> </ul>

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## Storm Water Management Program Tracking

## Good Housekeeping / Pollution Prevention (Continued)

ID	Who	Status	Start	Frequency	Update
<b>GH-6</b> <i>Pollution Prevention for De-icing</i>	Jefferson County	O	2000	Annual	<ul style="list-style-type: none"> <li>♦ Salt is stored in 5 covered sheds with open sides and 2 fully enclosed domes.</li> <li>♦ Salt spreaders are calibrated annually.</li> <li>♦ Salt is prewetted with liquid calcium chloride most of the time.</li> </ul>
	Anchorage	"	"	"	<ul style="list-style-type: none"> <li>♦ Salt is stored in covered area.</li> <li>♦ City has a new salt spreader and it is calibrated annually.</li> <li>♦ Salt spreader drivers receive training from University of Kentucky's Kentucky Transportation Center. Training offered annually.</li> <li>♦ Salt is prewetted with liquid calcium chloride.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>♦ Salt is stored in covered area.</li> <li>♦ Salt spreaders are calibrated on an as-needed basis.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>♦ Salt storage facility has been upgraded and a new cover is being added to the storage facility.</li> <li>♦ Snow removal/deicing by contract, City works with contractors to extent possible to encourage best methods to be used.</li> <li>♦ Salt is prewetted with liquid calcium chloride.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>♦ Salt is stored in covered area.</li> <li>♦ Salt spreaders are calibrated as-needed.</li> <li>♦ Salt spreader drivers receive training from APWA.</li> <li>♦ Salt is prewetted with liquid calcium chloride.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>♦ Salt is stored in a covered area (built in 1999).</li> <li>♦ Salt spreaders calibrated annually.</li> <li>♦ Examining the use of liquid calcium chloride in conjunction with salt.</li> </ul>
	KTC	"	"	"	♦ KTC has not signed interlocal agreement.
	Louisville	"	"	"	<ul style="list-style-type: none"> <li>♦ Salt is stored in covered area.</li> <li>♦ Salt spreader drivers receive training annually.</li> <li>♦ Salt is prewetted with liquid calcium chloride as needed.</li> <li>♦ City is investigating heating overpasses so salt would not need to be used at these locations.</li> </ul>
<b>GH-7</b> <i>BMP Inspections</i>	MSD	O	2000	Continual	♦ No BMPs in post construction status.
	Anchorage	N	2001	"	♦ No BMPs in post construction status.
	Jeffersontown	"	"	"	♦ No BMPs in post construction status.
	Prospect	"	"	"	♦ No BMPs in post construction status.
	Shively	"	"	"	♦ No BMPs in post construction status.
	St. Matthews	"	"	"	♦ No BMPs in post construction status.
	KTC	"	"	"	♦ KTC has not signed interlocal agreement.

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## Storm Water Management Program Tracking

## Good Housekeeping / Pollution Prevention (Continued)

ID	Who	Status	Start	Frequency	Update
<b>GH-8</b> <i>BMP Maintenance</i>	MSD	O	2000	Continual	♦ No BMPs in post construction status.
	Anchorage	N	2001	"	♦ No BMPs in post construction status.
	Jeffersontown	"	"	"	♦ No BMPs in post construction status.
	Prospect	"	"	"	♦ No BMPs in post construction status.
	Shively	"	"	"	♦ No BMPs in post construction status.
	St. Matthews	"	"	"	♦ No BMPs in post construction status.
	KTC	"	"	"	♦ KTC has not signed interlocal agreement.
<b>GH-9</b> <i>Pollution Prevention for Herbicides and Pesticides</i>	MSD	N	2000	Annual	♦ MSD is continuing internal educational efforts and developing training and a pollution prevention plan. The training will include application guidance, mixing and preparation guidance, guidance on proper disposal of used and/or waste materials, and other environmental consideration. MSD is also developing educational materials to distribute to co-permittees.
	Jefferson County	"	"	"	♦ County has no ordinance or requirements regarding residential application. ♦ County does not use pesticides and uses herbicides sparingly. ♦ Operators are trained in house.
	Anchorage	"	"	"	♦ City has no ordinance or requirements regarding residential application. ♦ City does not use pesticides and herbicides are used sparingly.
	Jeffersontown	"	"	"	♦ City has no ordinance or requirements regarding residential application. ♦ Certified application used on City properties.
	Prospect	"	"	"	♦ City has no ordinance or requirements regarding residential application. ♦ City contracts with licensed landscapers for all chemical applications.
	Shively	"	"	"	♦ City has no ordinance or requirements regarding residential application. ♦ City does not use pesticides and herbicides are used sparingly.
	St. Matthews	"	"	"	♦ City has no ordinance or requirements regarding residential application. ♦ City does not use pesticides or herbicides.
	KTC	"	"	"	♦ KTC has not signed interlocal agreement.
	Louisville	"	"	"	♦ City has no ordinance or requirements regarding residential application. ♦ Public works has annual training on use of herbicides and herbicides are used on vacant lots.

O = Ongoing Programs  
 N = New Initiatives  
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**Storm Water Management Program Tracking**

**Good Housekeeping / Pollution Prevention (Continued)**

ID	Who	Status	Start	Frequency	Update
<p><b>GH-10</b> Continuation of Existing Programs</p>	MSD	O	2000	Annual	<ul style="list-style-type: none"> <li>♦ MSD provides the public with locations and hours of drop-off programs through their website and billing inserts.</li> </ul>
	Jefferson County	"	"	"	<ul style="list-style-type: none"> <li>♦ Jefferson County has 6 drop off centers for recycling and 3 sites for appliances. A household hazardous waste collection drop off center is located on Grate Ln.</li> <li>♦ Waste haulers offer curb side recycling.</li> </ul>
	Anchorage	"	"	"	<ul style="list-style-type: none"> <li>♦ Outside contractor collects municipal waste, yard waste, and recyclables weekly.</li> <li>♦ Yard waste is taken to a compost site.</li> <li>♦ 79% of residents participate in recycling program.</li> <li>♦ City utilizes Jefferson County used oil and waste program.</li> <li>♦ City maintains a collection tank for used oil at the Public Works Department for residents to drop off used oil, which is recycled (residents are informed via city newsletter).</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>♦ Outside contractor collects municipal waste, yard waste, and recyclables weekly.</li> <li>♦ Yard waste is taken to a compost site.</li> <li>♦ 55% - 60% of residents participate in recycling program.</li> <li>♦ Promote recycling through schools and newsletters.</li> <li>♦ City utilizes Jefferson County used oil and waste program.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>♦ Outside contractor collects municipal waste, yard waste, and recyclables weekly.</li> <li>♦ Yard waste is taken to a compost site.</li> <li>♦ City utilizes Jefferson County used oil and waste program.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>♦ City collects municipal waste and recyclables weekly.</li> <li>♦ Yard waste is taken to a compost site.</li> <li>♦ Used oil is picked up by a private contractor.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>♦ Outside contractor collects municipal waste, yard waste, and recyclables weekly.</li> <li>♦ Leaves are given to a tree farm for composting.</li> <li>♦ City utilizes Jefferson County used oil and waste program.</li> </ul>
	Louisville	"	"	"	<ul style="list-style-type: none"> <li>♦ Same as Jefferson County.</li> </ul>

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## Storm Water Management Program Tracking

## Public Education / Outreach Programs

ID	Who	Status	Start	Frequency	Update
PE-1 Public Education Program	MSD	N	2000	Annual	<ul style="list-style-type: none"> <li>♦ MSD provided money and technical support to Salt River Watershed Watch.</li> <li>♦ MSD sponsored and participated in the Ohio River Sweep and the Beargrass Creek Sweep. In addition, MSD has participated in the Floyds Fork, Chenoweth Run, and Mill Creek Sweeps.</li> <li>♦ MSD's annual report, with a distribution of a bout 10,000 copies, features a section on water quality and environmental issues.</li> <li>♦ MSD produces a quarterly newsletter, <i>Cross Currents</i>, with the same distribution as the annual report. The newsletter details information on the flood protection system, bioenvironmental engineering, drainage improvements, sewer expansions in Jefferson County, and permanent household Hazardous Materials collection sites.</li> <li>♦ MSD includes 3 billing inserts per year which included water quality information.</li> <li>♦ MSD buys a 2.5-minute television advertisement every five weeks on the program <i>Louisville's Best Homes</i>. Recent advertisements have focused on MSD's stream sampling and flood protection programs.</li> <li>♦ MSD's Environmental Team actively pursues education activities through technical publications and public speaking engagements.</li> <li>♦ MSD's <i>Design Manual</i> is distributed throughout the development community. This manual details the review standards for proposed projects.</li> <li>♦ MSD continued to use two previously prepared videos: <i>MSD - Our History and Mission</i> and <i>Our River and Streams - Friend or Foe</i>. These videos have been widely distributed and are available at public libraries upon request.</li> <li>♦ MSD continued its sponsorship of a children's theater company for performances at schools on water quality issues.</li> <li>♦ Selected high schools have been brought into individual partnerships with MSD to involve groups of students in public-oriented water quality projects, such as the Stream Outfall and Structure Inventory Program and the Sanitary Sewer Inflow Program.</li> <li>♦ MSD has initiated a countywide Stakeholders Group that represents MSD's service areas and the committees. The goal is community involvement on decisions that will correct or address water quality issues.</li> <li>♦ MSD's Board has meetings twice a month.</li> <li>♦ A completed Greenways project, Ohio Riverwalk Trail (Downtown to Chickasaw Park), has educational and environmental stations along its route.</li> <li>♦ Presentations on MSD's landscape restoration were given to several groups throughout the community.</li> <li>♦ MSD's web page, <a href="http://www.msdlouky.org">www.msdlouky.org</a>, provides information on water quality.</li> </ul>

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## Storm Water Management Program Tracking

## Public Education / Outreach Programs (Continued)

ID	Who	Status	Start	Frequency	Update
PE-1 Public Education Program	Anchorage	N	2000	Annual	<ul style="list-style-type: none"> <li>City has monthly city newsletter.</li> <li>Newsletter topics include Jefferson County Household Hazardous Waste Program, used oil drop off program, illegal downspout connections, clean sweeps, tree giveaway, mulching, and disposal of grass clippings.</li> <li>City distributes County Extension Service brochures to residents on topics such as recycling, household hazardous waste disposal sites, composting, etc.</li> <li>Package of information about city and county programs sent to every new resident.</li> <li>City has an internet site, <a href="http://www.cityofanchorage.com">www.cityofanchorage.com</a></li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>City issues bimonthly city newsletter, with city hall phone number for concerns.</li> <li>The newsletters address water quality issues, including reminding residents not to dump yard debris into catch basins or ditches, yard waste collection instructions, and household hazardous waste program.</li> <li>City annually prints phone numbers for MSD, Health Department, Water Company, etc.</li> <li>City has an internet site, <a href="http://www.jeffersontownky.com">www.jeffersontownky.com</a></li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>Monthly newsletter, containing city hall phone number, addresses city issues including water quality and environmental issues.</li> <li>City has an internet site, <a href="http://www.prospectky.com">www.prospectky.com</a></li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>City has quarterly city newsletter, with city hall phone number for concerns. The newsletter addresses water quality issues.</li> <li>Twice a month, City Council goes on a walk to see areas of concern.</li> <li>Business Association does a cleanup along the expressways.</li> <li>Cane Run Elementary and Butler High School have "Adopt a Street" programs.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>City has a quarterly newsletter, with city hall phone number for concerns.</li> <li>City offers residents the opportunity to "unpaved" right-of-way; city will sod and plant trees for free.</li> <li>City offers residents reduced cost for replacement of driveway culverts in right-of-way between street and sidewalk.</li> <li>Web site development and LOJIC based system both under consideration.</li> </ul>
	Jefferson County	Does not have any permit obligations			<ul style="list-style-type: none"> <li>Jefferson County Board of Education and MSD put together Floyds Fork website ( <a href="http://www.floydsfork.com">www.floydsfork.com</a>). Site includes educational plans for water quality and quantity test. Information about EPSC, non-point source pollution and habitat. Green Outlook is a series of educational efforts about recycling.</li> <li>County has an internet site, <a href="http://www.jefferson.ky.us">www.jefferson.ky.us</a></li> </ul>
	Louisville	Does not have any permit obligations			<ul style="list-style-type: none"> <li>City has an internet site, <a href="http://www.louky.org">www.louky.org</a></li> </ul>

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## Storm Water Management Program Tracking

## Public Education / Outreach Programs (Continued)

ID	Who	Status	Start	Frequency	Update
<b>PE-2</b> <i>Earth Day</i>	MSD	O	2000	Annual	<ul style="list-style-type: none"> <li>MSD employees again volunteered for Earth Day at the Zoo. Thousands of local residents visited the MSD booth and were treated to demonstrations of bioengineering restoration techniques and LOJIC mapping detailing rainstorm tracking and stream flooding.</li> </ul>
	Anchorage	"	"	"	<ul style="list-style-type: none"> <li>City celebrates Arbor Day. City plants trees on school grounds and hosts school assemblies and contests.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>City participates in "Spruce up Jeffersontown". Residents pick up litter and clean creeks.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>No Earth Day activities.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>No Earth Day activities.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>No Earth Day activities.</li> </ul>
	KTC	"	"	"	<ul style="list-style-type: none"> <li>KTC has not signed interlocal agreement.</li> </ul>
<b>PE-3</b> <i>Litter Control</i>	MSD	O	2000	Annual	<ul style="list-style-type: none"> <li>NA</li> </ul>
	Anchorage	"	"	"	<ul style="list-style-type: none"> <li>City participates in "Adopt-A-Highway" near Central Hospital.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>Public Works Department cleans up debris on highways.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>NA</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>Business Association does a cleanup along the expressways. A special cleanup crew cleans problem dumping areas twice a month (Wathen Lane and Dubourge Avenue).</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>NA</li> </ul>
	KTC	"	"	"	<ul style="list-style-type: none"> <li>KTC has not signed interlocal agreement.</li> </ul>
<b>PE-4</b> <i>Volunteer Monitoring Support</i>	MSD	O	2000	Annual	<ul style="list-style-type: none"> <li>MSD continues to provide guidance as science advisor to Salt River Watershed Watch data.</li> <li>MSD participated in Watershed Watch.</li> <li>MSD donated time, materials, and cash to Salt River Watershed Watch.</li> <li>MSD serves on the State Basin Cycle.</li> <li>MSD gave a presentation on the municipal perspective at a TMDL meeting.</li> </ul>
<b>PE-5</b> <i>Internal Training</i>	MSD	N	2000	Annual	<ul style="list-style-type: none"> <li>MS4 presentations given to stakeholders group, Area Team Leaders, St. Matthews, and City of Louisville. Presentation might be given to MSD's E Team.</li> <li>Presentation given to MSD on landscape restoration.</li> </ul>
	Anchorage	"	"	"	<ul style="list-style-type: none"> <li>Hosted by MSD.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>MSD to provide training next year.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>MSD to provide training next year.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>MSD to provide training next year.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>MSD to provide training next year.</li> </ul>
	KTC	"	"	"	<ul style="list-style-type: none"> <li>KTC has not signed interlocal agreement.</li> </ul>
Louisville	"	"	"	<ul style="list-style-type: none"> <li>Hosted by MSD.</li> </ul>	

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## Storm Water Management Program Tracking

## Monitoring

ID	Who	Status	Start	Frequency	Update
<b>M-1</b> <i>Wet Weather Data Collection</i>	MSD	N	2000	Once	<ul style="list-style-type: none"> <li>MSD has trained staff and consultants on wet weather data collection.</li> <li>Will be sampling CSO 108, 206, and 209, and in streams once there is sufficient rainfall.</li> <li>Pagers, mobile phones and calling trees are in place.</li> </ul>
<b>M-2</b> <i>Land Use Characterization</i>	MSD	N	2000	Quarterly	<ul style="list-style-type: none"> <li>There has been insufficient rainfall to sample. Sampling is tentatively scheduled for January 2000.</li> </ul>
	Anchorage	"	"	"	<ul style="list-style-type: none"> <li>M-2 is met through the interlocal agreement with MSD.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>M-2 is met through the interlocal agreement with MSD.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>M-2 is met through the interlocal agreement with MSD.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>M-2 is met through the interlocal agreement with MSD.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>M-2 is met through the interlocal agreement with MSD.</li> </ul>
<b>M-3</b> <i>Ambient Stream Data Collection</i>	MSD	O	2000	Quarterly	<ul style="list-style-type: none"> <li>A long term monitoring network of 22 sites has been implemented. The site locations have good spatial spread across the county plus controls (Mead and Nelson counties).</li> <li>Minimonitors are located and stream flow data is collected at all sites.</li> <li>In addition, fecal data is collected to detect recreational violations.</li> </ul>
	Anchorage	N	"	"	<ul style="list-style-type: none"> <li>M-3 is met through the interlocal agreement with MSD.</li> </ul>
	Jeffersontown	"	"	"	<ul style="list-style-type: none"> <li>M-3 is met through the interlocal agreement with MSD.</li> </ul>
	Prospect	"	"	"	<ul style="list-style-type: none"> <li>M-3 is met through the interlocal agreement with MSD.</li> </ul>
	Shively	"	"	"	<ul style="list-style-type: none"> <li>M-3 is met through the interlocal agreement with MSD.</li> </ul>
	St. Matthews	"	"	"	<ul style="list-style-type: none"> <li>M-3 is met through the interlocal agreement with MSD.</li> </ul>
<b>M-4</b> <i>Volunteer Monitoring Coordination</i>	MSD	O	2000	Quarterly	<ul style="list-style-type: none"> <li>MSD worked with University of Louisville and Salt River Watershed Watch on fecal data collection and coordination. This data will be posted on the MSD web site.</li> </ul>

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## Storm Water Management Program Tracking

## Reporting

ID	Who	Status	Start	Frequency	Update
R-1 Annual Report	MSD	O	2000	Annual	<ul style="list-style-type: none"> <li>This document serves as the watershed based annual report that covers the KPDES permit activities in Jefferson County.</li> <li>A financial section has been provided in the annual report documenting the annual cost of the storm water program for MSD. Co-permittee costs are not included in this report but will be integrated in future reports.</li> <li>This annual report has been combined with the CSO Annual Report and the SSO Annual Report.</li> </ul>
	Anchorage	"	"	"	• R-1 is met through the interlocal agreement with MSD.
	Jeffersontown	"	"	"	• R-1 is met through the interlocal agreement with MSD.
	Prospect	"	"	"	• R-1 is met through the interlocal agreement with MSD.
	Shively	"	"	"	• R-1 is met through the interlocal agreement with MSD.
	St. Matthews	"	"	"	• R-1 is met through the interlocal agreement with MSD.
	KTC	"	"	"	• KTC has not signed interlocal agreement.
R-2 ArcView Application	MSD	O	2000	Annual	<ul style="list-style-type: none"> <li>Results of the Student Outfall Program can be viewed with this application</li> <li>Information on pollutant sources is included with this application.</li> <li>Monitoring data is not included with this application. The data is tentatively scheduled to be included in the year 2 report. Data collected from 1999- present will include DO, pH, temp, %DO saturation, and fecal.</li> </ul>
	Anchorage	"	"	"	• R-2 is met through the interlocal agreement with MSD.
	Jeffersontown	"	"	"	• R-2 is met through the interlocal agreement with MSD.
	Prospect	"	"	"	• R-2 is met through the interlocal agreement with MSD.
	Shively	"	"	"	• R-2 is met through the interlocal agreement with MSD.
	St. Matthews	"	"	"	• R-2 is met through the interlocal agreement with MSD.
	KTC	"	"	"	• KTC has not signed interlocal agreement.
R-3 Water Quality Report	MSD	N	2000	Biennial or 2 times during the next 5 years	<ul style="list-style-type: none"> <li>The Water Quality Report will be published in January 2000.</li> </ul>
R-4 Data Report	MSD	N	2000	Annual	<ul style="list-style-type: none"> <li>The Data Report is tentatively scheduled to be included in the year 2 Annual Report. Data collected from 1999- present will include DO, pH, temp, %DO saturation, and fecal.</li> </ul>
R-5 Synthesis Report	MSD	N	2000	Once	<ul style="list-style-type: none"> <li>The Synthesis Report was finalized in November 1999. A presentation on data from the report has been given to various groups, including the E Team and Area Team Leaders. A paper on the Synthesis Report was submitted and accepted to WEFTEC in 1999.</li> </ul>

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