



Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

April 10, 2012

██████████
██████ N Bellaire Ave
Louisville, Kentucky 40206

Subject: Integrated Overflow Abatement Plan (IOAP)
Public Input Meeting January 24, 2012
Response to comments

Dear ██████████

Thank you for taking the time to attend the meeting and provide verbal comments, supplemented with written comments relative to the I-64 & Grinstead Drive storage basin project, and the IOAP program in general. Your comments are summarized below, and your comment form is attached for reference.

Comment 1 – I strongly support using green alternatives.

Response to Comment 1 – MSD appreciates your support for the use of green infrastructure to reduce the amount of stormwater entering the combined sewer system, thereby reducing or eliminating the need for gray infrastructure CSO controls. We intend to actively pursue green infrastructure opportunities in the I-64 and Grinstead project area in the hopes that the size of this basin can be reduced. MSD will be requesting USEPA and the Kentucky Department for Environmental Protection to grant a schedule modification for the basin to allow the benefits of green infrastructure to be documented. When these modifications are put out for public comment as part of an overall IOAP modification your continued support would be greatly appreciated.

Comment 2 – I would like to have someone explain the constraints we have to unhook from the combined sewer system.

Response to Comment 2 – Customers who are served by combined sewers are not able to completely “unhook” from the system, as that is the only sewer available for sanitary sewage discharge. It is possible, however, for many people who live in the combined sewer area to disconnect roof-top downspouts from the combined sewer system. The practicality of doing this is dependent on the size of the lot, the soils available for infiltrating the water, and the slope of the terrain. Attached to this letter is an information packet explaining MSD’s downspout disconnect program. After reviewing this, if you still have questions please



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Letter to [REDACTED]
April 10, 2012
Page 2 of 3

contact MSD Customer Relations at 587-0603 to obtain additional information and if necessary schedule a visit from a staff member knowledgeable about downspout disconnects.

Comment 3 – I think people should be charged extra for the rainwater going into the combined sewers from their property.

Response to Comment 3 – MSD's Rates, Rentals and Charges establish a uniform rate for residential customers regardless of whether they live in the combined or the separate sanitary sewer service area. Clear water intrusion is a problem in at least some parts of both service areas, so applying a surcharge in one area and not the other does not seem appropriate. MSD staff is researching approaches for applying clear water surcharges under specific conditions that could apply across the entire service area. Any changes of this type would need specific Board approval. We appreciate your thoughts in this matter and will take this into consideration as we work towards reducing clear water intrusion into the sewers all across the county.

Comment 4 (provided verbally at the meeting) – I suggest you involve the neighborhood associations in efforts to implement green strategies, as they may be more successful in getting business participation than if MSD approached businesses individually.

Response to Comment 4 – MSD would be happy to engage neighborhood associations in the implementation of green infrastructure. We recently attended a meeting of the Clifton Community Council to discuss the IOAP and green infrastructure related to the proposed I-64 and Grinstead basin. We intend to keep the Clifton Community Council informed and involved as we further develop CSO control concepts in this basin.

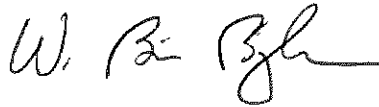
Comment 5 – I would like to see on the diagrams of the proposed basin where the bicycle path is projected to be. I also don't understand the various colors in the diagram. Does this refer to specific plantings?

Response to Comment 5 – As noted by Steve Emly at the meeting, the bike path location, the basin configuration, the plantings, etc., are very preliminary and conceptual. The intent was to give the community some idea of the general size and location of the basin, and how we might work to fit it into the surrounding area. As planning for the basin moves forward MSD intends to work with Metro Parks, the Clifton Community Council, and concerned citizens on the details of the design.

Letter to [REDACTED]
April 10, 2012
Page 3 of 3

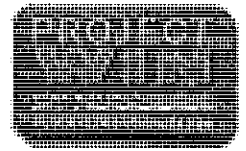
This letter will be posted on MSD's Project WIN web page at the link:
www.msdlouky.org/projectwin.

Sincerely,

A handwritten signature in black ink, appearing to read "W. Brian Bingham". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

W. Brian Bingham
Regulatory Services Director

Attachments: Comment Form, transcribed verbal comments, downspout disconnection
procedures



IOAP Public Outreach Meeting

Jan 24th 2012
(date)

To Be Completed by the Customer

Customer Name (Last, First) [REDACTED]
Address [REDACTED] N. Bellaire Ave. Zip Code 40206
Cell Phone _____ Work Phone [REDACTED]

LOCATION OF REQUEST

Address I-64 / Grinstead Storage Basin Zip Code _____
Owner [] Tenant [] Other []

REQUEST TYPE

[] MSD Construction [] IOAP Project/Program
[] Drainage [] General MSD concern
[] Sanitary Sewer [] _____
[] Development [] _____

REQUEST DESCRIPTION

① I may not have made it clear in my comments, but I strongly support using green alternatives.
② Personally, I would like someone to come to my house and explain what we can do with the constraints we have to unhook from the combined sewer although I don't think I am in this particular area.
③ I think people should be charged extra for all the rainwater going into combined sewers from their property!

To Be Completed by an MSD Representative

MSD Responder: _____ Division: _____
Response Provided to Customer: _____

“Yes, my name is [REDACTED] I’m a member of the Clifton Community Council. I live at [REDACTED] North Bellaire Avenue and I also bicycle. One point I would like to make is that I think is very important is to involve the neighborhood associations in all the efforts to implement the green strategies because I think the neighborhoods and the business associations in these areas could have an effect on how successful they might be instead of MSD just going individually to each business. If the businesses get input from their neighbors, it might make a difference.

Another thing that occurred to me, I’m just sort of puzzled about why this all got started in 2009, but we didn’t really have an opportunity for public input until 2011.

And I also would like to see on all the diagrams where the bicycle path is projected to be. I saw it on one, but then on another I didn’t. Then I heard something about maybe a trail head at the parking lot, but bicyclists really want to go to the intersection of Grinstead and Lexington Road. So I’m not sure exactly how that feeds into that or if that would just be a separate little branch into there. And then I see that on the diagrams of the facility that there are all these colors, but I don’t see anything that indicates what the colors mean and that doesn’t come up in the talks, so I would be interested... I mean, I understand that there’s green, that it will be some kind of green roof on the structure, but what do the colors mean? Is it different kinds of plantings, or whatever? So, those are my questions.”

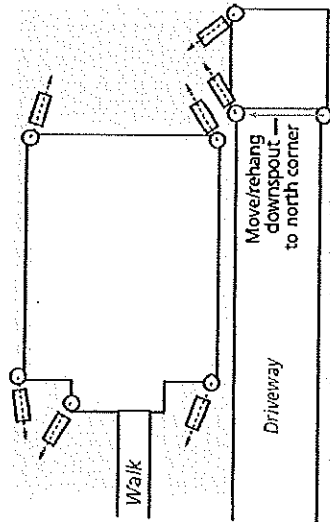
Steve Emly, MSD Interim Director of Engineering- “I’ll try to answer a couple of questions. The public input process went from day one, at some point we knew we had to have a pretty intense stakeholder involvement with this project. We spent a lot of time in late 2009 and in 2010, really just gathering what I would consider to be a foundation of information in order to even begin to make some of the decisions and ask some of the questions that we needed to ask. So the change in the calibration that happened in the fall 2011, happened again about the same time that we felt like we’d gone through enough information, and had enough information, to begin a conversation with the associations and the people who are interested here. So it certainly took longer than we would have liked to begin that process. We are ready to begin that process now, and again, I apologize if you think it took too long to get there. There’s a lot of background and, we spent months just trying to meet with Kentucky Transportation folks to try to determine if this was, in fact, a feasible location for the site. Because if that was off the table from their standpoint, it really made no sense to even begin a public input process as far as the details of it.

The bike path, I hope I mentioned that all of the renderings that we have here, both over here and in the presentations, are conceptual. We don’t have any details proposed about how those bike paths will be connected, where that trail head will be laid out. Those are issues that we look forward to working with metro parks and the concerned citizens about how those details

end up being implemented. The colors are conceptual, prepared by architect or landscape architects that had helped us with these renderings. They're really just trying to provide some concept. It's really difficult to envision how that area would be transformed into what we're proposing. So we're really just trying to have some rendering of what that might look like and you might be able to see some details over here that you weren't able to see on the screen. So I would just encourage you to stop by and take a look at the pictures over here."

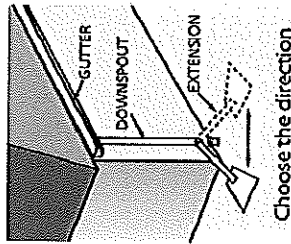
Brian Bingham, MSD Director of Regulatory Services- "I want to briefly touch on two of those points in a little more detail. One of the reasons we're having these meetings is for you all to have those inputs. If you have ideas, what you would like to see, as far as where the bike lanes could be or what the needs are or the trail heads or anything like that, please, please convey that information to the people at the tables when you go look at those projects. And the second question was actually you're question about the public input. There was previous public input on a grander scale, but it didn't get down to the project level. All of these projects were in the Integrated Overflow Abatement Plan. We had a number of meetings around the community, but we didn't drill down into the detail. That's why we've changed this process and included this type of meeting to be able to get to that level of detail on the projects that the community wants to have input on. Some of the projects are very small and maybe only a small area wants to have input. Some of them, like this one, and some of the other ones that we've done recently, and some more that we have planned effect much bigger areas and many more people want to have a say. This is something we've talked to EPA, we've agreed that this was the format that we wanted to present. They accepted that as what they thought would be a very good response to the questions of whether there was enough public input.

HOW TO DISCONNECT DOWNSPOUTS



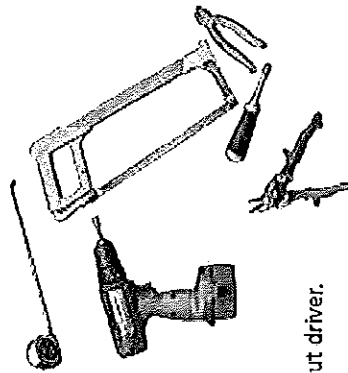
STEP 1. DRAW A SIMPLE PLAN

Sketch a site plan of your home. Mark the locations of downspouts to be disconnected and the direction of flow.



STEP 2. SELECT DIRECTION OF FLOW

You may have more than one option for directing each downspout. Consider obstacles for water to move around and drain water away from house.

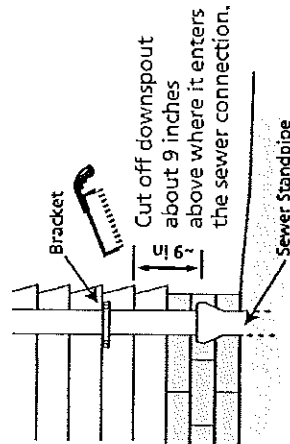


Tools

You will need a hacksaw, a drill, a pair of needle-nose pliers or crimpers, a tape measure, and a screwdriver or nut driver.

STEP 3. PARTS & MATERIALS

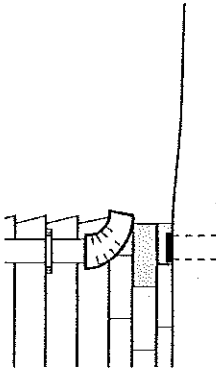
Make a list of the parts and materials needed. Measure size of existing downspout. Some downspouts are attached only to gutter and the sewer standpipe. If so, you may need to secure a bracket or strap to keep the gutter in place when you disconnect.



STEP 4. CUT OFF DOWNSPOUT

Measure the existing downspout from the top of the standpipe and mark it about 9 inches above the standpipe. You may need to cut the downspout higher depending on the length of your extension. Cut the existing downspout with a hacksaw and remove cut piece.

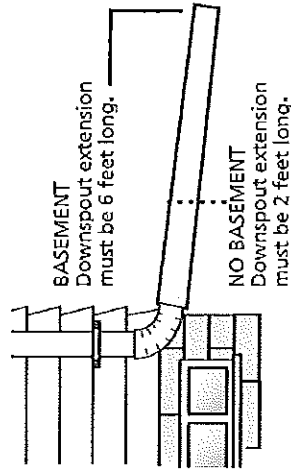
HOW TO DISCONNECT DOWNSPOUTS



STEP 5. PLUG STANDPIPE

Fill open standpipe with crumpled newspaper and top with concrete or fill with spray foam insulation to permanently seal.

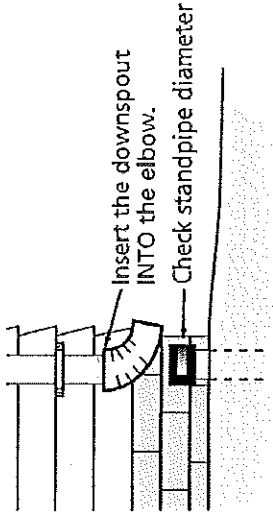
SEE DISCONNECTION DISPLAY



STEP 7. MEASURE & CUT DOWNSPOUT EXTENSION

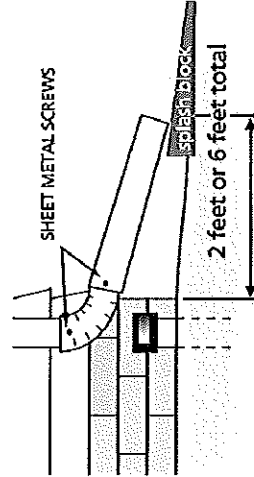
Be sure to attach the extension over the elbow or it will leak.

- Downspouts recommended to drain at least 6 feet from basement walls and at least 2 feet from crawl spaces and concrete slabs
- The end of the downspout is recommended to be at least 5 feet from property line, and possible more if your yard slopes toward your neighbor's house.



STEP 6. ATTACH THE ELBOW

Be sure to attach the elbow over the downspout. Do not insert the elbow inside the downspout or it will leak. If the elbow does not fit over the downspout, use crimpers or needle nose pliers to crimp the end of the downspout so it slides inside the elbow.



Total distance will depend on whether or not you have a basement.

STEP 8. SECURE PIECES & USE OF SPLASH BLOCK

Secure pieces with screws at each joint where the downspout, elbow, and extension connect. It helps to pre-drill holes for screws. Using a splash block at the end of an extension is optional, but it will help prevent soil erosion.

HOW TO DISCONNECT DOWNSPOUTS



Safety considerations

Slope: Add or remove soil to make sure that the slope of the ground allows water to flow away from structures. However, do not disconnect downspouts on slopes over 10%.

Drainage: Avoid disconnecting downspouts in an area too small for good drainage (see page 4 for guidelines).

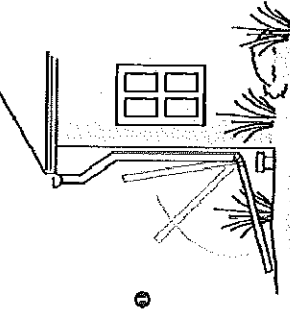
Extensions: Disconnected downspouts must be extended to discharge water at least 6 feet from a structure's basement and 2 feet from a structure's crawl space or slab foundation.

Downspout extensions and surrounding landscape: Downspout extensions and surrounding landscape surface must drain water away from any structures.

Property Lines: The end of your downspout extension must be at least 5 feet from your neighbors' property line and 3 feet from the public sidewalk. You may need more room if your yard slopes towards your neighbor or the sidewalk.

Access: Avoid disconnecting downspouts or adding downspout extensions across a walkway, patio, driveway, or in front of a gate because of possible tripping hazards.

Other Hazards: Do not disconnect directly over a septic system, drain field, or an underground oil tank unless they have been decommissioned. Do not disconnect within ten feet of a retaining wall.



Other suggestions

- 1 Consider installing a hinged downspout elbow and enclosed extension that you can flip up against the house during dry weather or lawn mowing. The extension must be enclosed, not an open trough. (see diagram 1)
- 2 Think about creating a space to disconnect by removing paved surfaces, such as concrete pathways, patios or unused driveway area.
- 3 Replace pavement or concrete with pavers or gravel where appropriate to allow for infiltration. (see diagram 3)
- 4 Extend downspouts underneath a deck or raised patio to get runoff to a landscaped area. (see diagram 4)
- 5 Use plastic or concrete splashblocks, rocks, flagstone, or boulders at the end of downspouts to control erosion, help direct runoff, and add visual interest. (see diagram 5)
- 6 Incorporate other stormwater management systems into your downspout disconnections, such as a rain garden, soakage trench, or rainwater harvesting system. See the resources section for more information.

